Last Updated: Feb. 19, 2024

CHEMBA-CHEM Degree Snapshot

UNIV 1001, University Perspectives or exemption	General Chemistry (8 hrs)
	CHEM 1203/1201L, Chemistry for Majors I OR CHE
State Core English Composition (0-6 hrs)	1103/1101L, University Chemistry I
ENGL 1013, Composition 1 or exemption	CHEM 1223/1221L, Chemistry for Majors II OR CHI
ENGL 1023, Composition 2 or exemption	1123/1121L, University Chemistry II
State Core US History or Government (3 hrs)	Analytical Chemistry (4 hrs)
US HIST/PLSC	CHEM 2263/2261L, Analytical Chemistry
State Core Mathematics (0 hrs)	Organic Chemistry (8-10 hrs)
Requirement met with courses in major.	CHEM 3703/3702L, Organic Chemistry for Majors I
	CHEM 3603/3601L, Organic Chemistry I
State Core Natural Sciences w/ labs (0 hrs)	CHEM 3713/3712L, Organic Chemistry for Majors I
Requirement met with courses in major.	CHEM 3613/3611L, Organic Chemistry II
<u>State Core Social Sciences</u> (9 hrs)	Physical Chemistry (4-10 hrs)
Social Science	CHEM 3453/3451L, Elements of Physical Chemistry
Social Science	<u>Or:</u>
Social Science	CHEM 3504, Physical Chemistry I AND
	CHEM 3514/3512L, Physical Chemistry II
State Core Fine Arts (3 hrs)	
Fine Art	Chemistry Electives (6 hrs)
State Core Humanities (3 hrs)	CHEM 3000+
Humanities	CHEM 3000+
Major World Language to 2003 level (3-9 hrs)	General Electives (29-58 hrs)
Language 1003 (or fluency)	
Language 1013 (or fluency)	
Language 2003 (or higher required)	
Mathematics (3-11 hrs)	
MATH 1203, College Algebra (or math placement	
directly in to next math)	
MATH 1284, Precalculus or MATH 1213, Plane	
Trigonometry (only required if taking MATH 2554)	
MATH 2554c, Calculus I OR MATH 2043, Survey of	
Calculus (Required)	
Physics (8 hrs)	
PHYS 2013/2011L, College Physics I OR PHYS 2054,	

- University Physics I
- PHYS 2033/2031L, College Physics II OR PHYS 2074, University Physics II

Graduation Plan

		or map, to complete your graduation plan (<u>Catalog</u> , has additional required classes. This tool allows yo		
High School credit	List all Advanced	List all Advanced Placement, International Baccalaureate, Dual or Concurrent credit		
Year	Fall	Spring	Summer	Total
Year 1				Total 1 st 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):
Do you have All state min All Major(s) Writing req Have At leas 24 hours of 30 hours of 120 total elia COURSES THAT • ENG • MAT	upper-level classes. (3000+ or 2000+ with a pre-r gible credit hours (see below for a list of ineligibl DO NOT COUNT TOWARDS THE 120 HOURS REG L 0002 TH 0001L, MATH 0002L, MATH 0003, and MATH	of Arts and Sciences classes Arkansas. This can include courses taken for the 24 requisite. Can include transfer credit.) This can inclu e classes) QUIRED FOR GRADUATION	ude courses taken for the 24-hour ar	ıd 30-hour rules.

Department Information:

Faculty who have exception/substitution authority: Colin Heyes

<u>Transfer Coursework Restriction</u>: At least 50% of a student's Arts and Sciences (ARSC) major or minor must be taken at the University of Arkansas.

<u>Note about course sequencing</u>: The Chemistry majors are pre-requisite heavy programs that are highly sequenced. Some essential classes are offered only once per year. It's highly recommended that students work with advisors to create a multi-semester graduation plan early in their degree.

<u>GPA (Grade Point Average)</u>: Every student must have at least a 2.00 cumulative grade point average to be eligible to graduate from the University of Arkansas.

Please visit <u>https://catalog.uark.edu/undergraduatecatalog</u> for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the <u>courses of instruction</u> 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.

Category	Degree Requirements	Curriculum Notes
UNIVERSITY	· ·	Or equivalent from another University of Arkansas college. (AFLS
PERSPECTIVES	UNIV 1001, University Perspectives	1023H, ARSC 1201, GNEG 1111, HIST 1003(H), HIST 1003(H), PLSC
		1003, BUSI/WCOB 1111)
0-1 hr		
		Note: students who transfer to the University of Arkansas with at
		least 24 credit hours will have this requirement waived.
STATE CORE		See <u>Catalog</u> for information about placement and/or exemption.
COMPOSITION	• ENGL 1013, Composition 1 or SAT/ACT exemption	
	• ENGL 1023, Composition 2 or SAT/ACT exemption	
0-6 hrs		
STATE CORE US	Choose 1: *	*Some courses may appear as options in multiple areas of the
HISTORY or	 HIST 2003, History of the American People to 1877 	State Core. You can only count each course 1 time in the State Core
GOVERNMENT	 HIST 2013, History of the American People 1877 to 	and will need unique courses in each of the content areas below.
	Present	
3 hrs	PLSC 2003, American National Government	
	Met with requirements in major.	Based on ACT/SAT or other math placement scores, students may
MATHEMATICS		need to enroll in additional remediation related courses. See
		catalog or math placement website for additional information.
0 hrs		
STATE CORE	Met with requirements in major.	
NATURAL		
SCIENCES CORE		
0 hrs		
	Choose 3: *	Students must take classes from at least two departments in the
SOCIAL SCIENCES	 AGEC 1103, Principles of Agriculture Microeconomics 	Social Sciences category.
0 hus	 AGEC 2103, Principles of Agriculture Macroeconomics 	
9 hrs	ANTH 1023, Intro to Cultural Anthropology	*Some courses may appear as options in multiple areas of the
	COMM 1023, Communication in a Diverse World	State Core. You can only count each course 1 time in the State Core
	ECON 2013, Principles of Macroeconomics	and will need unique courses in each of the content areas below.
	ECON 2023, Principles of Microeconomics	
	ECON 2143, Basic Economics: Theory and Practice	
	 EDST 2003, Introduction to Educational Studies 	
	GEOS 1123, Human Geography	
	GEOS 2003, World Regional Geography	
	HDFS 1403, Life Span Development	
	HDFS 2413, Family Relations	
	 HDFS 2603, Rural Families & Communities 	
	HIST 1113, Institutions and Ideas of World Civilizations I	
	• HIST 1123, Institutions and Ideas of World Civilizations II	
	• HIST 2003, History of the American People to 1877	
	• HIST 2013, History of the American People 1877 to	
	Present	
	HIST 2093, Animals in World History	
	 HUMN 1114H, Honors Roots of Culture to 500 C.E. 	
	(Honors only)	
	HUMN 2114H, Honors Birth of Modern Culture, 1600-	
	1900 (honors only)	
	INST/PLSC 2813, Intro to International Relations & Global	

	 PLSC 2003, American National Government 	
	 PLSC 2013, Intro to Comparative Politics 	
	 PLSC 2203, State and Local Government 	
	 PSYC 2003, General Psychology 	
	RESM 2853, Leisure and Society	
	 SOCI 2013, General Sociology 	
	 SOCI 2033, Social Problems 	
	STEM 2003, The Art of STEM Communication	
STATE CORE FINE	Choose 1:	Classes taken in this category may not overlap in any other core
ARTS	ARCH 1003, Architecture Lecture	category
3 hrs	ARHS 1003, Art Lecture	
••	COMM 1003, Film Lecture	
	 DANC 1003, Movement and Dance 	
	ENGL 2023, Creative Writing 1	
	HUMN 2114H, Honors Birth of Modern Culture 1600-	
	1900 (honors only)	
	LARC 1003, The American Landscape	
	MLIT 1003, Experiencing Music	
	 MLIT 1013, Music and Society (music majors only) 	
	MLIT 1333, Popular Music	
	THTR 1003, Theatre Appreciation	
	THTR 1013, Musical Theatre Appreciation	
	THTR 1683, Acting I	
	THTR 1883, Acting 1 for Theatre majors	
STATE CORE	Choose 1: *	*Some courses may appear as options in multiple areas of the
HUMANITIES	 AAST 2023, The African American Experience 	State Core. You can only count each course 1 time in the State Core
3 hrs	 ANTH 1033, Introduction to Archeology 	and will need unique courses in each of the content areas below.
51115	 ARCH 1013, Diversity and Design 	
	CLST 1003, Introduction to Classical Studies: Greece	
	 CLST 1013, Introduction to Classical Studies: Rome 	
	 COMM 1233, Media, Community and Citizenship 	
	DANC 1003, Dance Appreciation	
	DASC 2133, Data Privacy & Ethics	
	ENGL 1213, Introduction to Literature	
	ENGL 2023, Creative Writing I	
	GNST 2003, Introduction to Gender Studies	
	HIST 1113, Institutions and Ideas of World Civilizations I	
	• HIST 1123, Institutions and Ideas of World Civilizations II	
	• HIST 2003, History of the American People to 1877	
	HIST 2013, History of the American People 1877 to	
	Present	
	• HUMN 1124H*, Honors Equilibrium of Cultures 500-1600	
	(Honors only)	
	HUMN 2213, Introduction to World Religions	
	LALS 2013, Introduction to Latin American and Latino	
	Studies	
	MRST 2013, Introduction to Medieval and Renaissance	
	Studies	
	MUSY 2003, Music in World Cultures	
	PHIL 2003, Introduction to Philosophy	
	PHIL 2103, Introduction to Ethics	
	 PHIL 2203, Logic 	
	 PHIL 2303, Human Nature and the Meaning of Life 	
	 PHIL 3103, Ethics and the Professions 	

	THTR 1003, Theatre Appreciation	
	THTR 1013, Musical Theatre Appreciation	
	WLIT 1113, World Literature: Beginnings to 1650 CE	
	WLIT 1123, World Literature: 1650 CE to Present	
	Any Intermediate level foreign language numbered at the	
MAJOR	2000 level Get to the Intermediate I (2003) level or higher of a world	Language Options: See the <u>catalog</u> for complete list
LANGUAGE	language:	canguage options. See the <u>catalog</u> for complete list
REQUIREMENT		Language Placement: See the WLLC website for a list of available
	This may be completed by taking only the 2003 level, if the	placement exams for certain languages as well as information
3-9 hrs	student has previous fluency, but is most commonly	about credit by exam for Spanish.
	completed by taking three classes (ARAB and CHIN both also	
	offer intensive formats for accelerated study):	
	Elementary I (1003)	
	Elementary II (1013)	
	Intermediate I (2003)	
MATHEMATICS	• MATH 1203, College Algebra (or <u>math placement</u> directly	Students need to earn a C or higher in MATH classes to use them
2.44.1	in to next math)	as pre-requisites for other classes.
3-11 hrs	MATH 1284, Precalculus or MATH 1213, Plane Trigonometry (only required if taking MATH 2554)	
	 MATH 2554c, Calculus I (pre-req: MATH 1284c, 1213, or 	*MATH 2445, Calculus I with Review, may also count here.
	math placement)* OR MATH 2043, Survey of Calculus	Students should start on their math sequence as early as possible,
	(Pre-req: MATH 1203, 1213, 1284c, or MATH 2053 or	since many of these classes will be pre-requisites for future CHEM
	<u>math placement</u>)	classes.
		Choice here will impact which CHEM options will be available later.
		Based on ACT/SAT or other math placement scores, students may
		need to enroll in additional remediation related courses. See
		catalog or math placement website for additional information.
PHYSICS	Choose 1 sequence:	These Physics II will be a pre-requisite to some future CHEM
8 hrs		courses.
01115	PHYS 2013/2011L, College Physics I (Fall and summer only.	Chains have will import which CUEM entires will be evailable
	pre-req MATH 1203 and 1213 or MATH 1284 or MATH 2043 or MATH 2554c or see course description for math	Choice here will impact which CHEM options will be available later.
	placement)	
	PHYS 2033/2031L, College Physics II (Spring and summer	
	only. pre-req: PHYS 2013 or 2054)	
	. ,	
	• OR	
	• PHYS 2054, University Physics I (pre-req: MATH 2554c)	
	• PHYS 2074, University Physics II (pre-req: MATH 2564c)	
GENERAL	Choose 1 sequence:	Students cannot receive degree credit for both CHEM 1203 and
<u>CHEMISTRY</u>	• CHEM 1203/1201L, Chemistry for Majors I (Fall only. pre-	1103 or CHEM 1223 and CHEM 1123.
8 hrs	req: MATH 1203 or higher or see <u>course description</u> for	
	math placement)	If a student changes to this major after having taken CHEM 1113, Chemistry for Engineers I and CHEM 1133/1131L, Chemistry for
	• CHEM 1223/1221L, Chemistry for Majors II (Spring only. Co- or process): MATH 1284c or higher. Bro root: CHEM	Engineers II, they can count those courses in this category, with
	or pre-req: MATH 1284c or higher. Pre-req: CHEM 1203/1201L or CHEM 1103/1101L)	substitution, if they also take CHEM 1101L or CHEM 1121L.
	• Or	
	• CHEM 1103/1101L, University Chemistry I (pre-req: MATH 1203 or see <u>course description</u> for math placement)	

	• CHEM 1123/1121L, University Chemistry II (pre-req: CHEM 1103 and MATH 1203 or see <u>course description</u> for math placement)	
ANALYTICAL CHEMISTRY	 CHEM 2263/2261L, Analytical Chemistry (pre-req: CHEM 1123 or 1223 and MATH 1203 or see <u>course description</u> for math placement) 	While not a required co-requisite in the course descriptions, chemistry majors should take the lecture and the lab in the same semester.
4 hrs		This class will be a pre-requisite to future physical chemistry classes.
ORGANIC CHEMISTRY	Choose 1 sequence:	Honors students may also automatically count CHEM 3603H/3602M and CHEM 3613H/3612M.
8-10 hrs	 CHEM 3703/3702L, Organic Chemistry for Majors I (Fall only. Pre-req: CHEM 1123 or 1223) CHEM 3713/3712L, Organic Chemistry for Majors II (Spring only. Pre-req: CHEM 3703) 	
	 Or: CHEM 3603/3601L, Organic Chemistry I (Pre-req: CHEM 1123 or 1223) CHEM 3613/3611L, Organic Chemistry II(Pre-req: CHEM 3603 or 3703) 	
PHYSICAL CHEMISTRY 4-10 hrs	 Choose 1 option: CHEM 3453/3451L, Elements of Physical Chemistry (Fall only. Pre-req: CHEM 2263 and PHYS 2033 or 2074 and MATH 2554c) 	Students cannot receive credit for both Elements of Physical Chemistry and Physical Chemistry I & 2.
	 Or CHEM 3504, Physical Chemistry I (Fall only. Co- or pre-req: MATH 2564c. Pre-req: CHEM 2263 and PHYS 2074) CHEM 3514/3512L, Physical Chemistry II (Spring only. Pre- req: CHEM 3504) 	
CHEMISTRY ELECTIVES 6 hrs	Take two additional Lecture courses numbered 3000 level or higher.	CHEM 399T and 499T transfer courses can count here. as long as students still meet the 50% rule. Not all 99T classes pull into the degree audit automatically, so students may need to request classes be moved into the minor by their academic advisor
GENERAL ELECTIVES	Hours will vary depending on math placement, language placement, choice within chemistry major, and whether a student is exempt from ENGL 1013 and 1023.	Some general electives may need to be upper level to meet college and university residency requirements. See <u>Graduation</u> <u>Checklist</u> on page 2 for more information.
29-58 hrs <u>WRITING</u> <u>REQUIREMENT</u>	 The college writing requirement may be satisfied in one of two ways: Completion of CHEM 3451L or CHEM 3512L Successful honors thesis defense 	
<u>HONORS</u>	 Minimum Requirements for Honors: Maintain cumulative grade point average of 3.5 in all coursework. Complete a minimum of 12 hours of honors courses from the UofA (which includes CHEM 4011H taken once in Junior year and once in Senior year) Complete and defend Honors Thesis See <u>Catalog</u> for full description of requirements. 	 Honors Thesis Timeline: Honors students should consistently check the honors thesis timeline to stay on track to complete your honors thesis. College Honors: Students who also are following the College Honors Core for Bachelor of Arts programs need to also complete those additional requirements: 2023-24 catalog requirements 2022-23 and older catalog requirements