

## CHEMISTRY MAJOR (CHEM.BA)

<u>Required Courses</u>	<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
CHEM 131    Gen Chemistry Sci Majors I <i>*Prerequisite: Must have passed at least one year of high school chemistry or one semester of college chemistry equivalent to CHEM 105/107L or above AND at least one of the following: MATH ACT score of 20, MATH SAT score of 500, grade of C or better in one of the classes: MATH 103, 110, 112, 115, 130, 161.</i>	3	*Coreq CHEM 133L	Fr
CHEM 133L    Gen Chemistry Sci Maj I Lab	1	Coreq CHEM 131	
CHEM 132    Gen Chemistry Sci Majors II	3	C- or better in CHEM 131, 133L: Coreq CHEM 134L	Fr
CHEM 134L    Gen Chemistry Sci Maj II Lab	1	Coreq CHEM 132	
<u>OR</u>			
CHEM 161    Acc Gen Chem for Sci Majors	3	HS Chem & placement CHEM 105, 107L; Coreq CHEM 163L	Fr
CHEM 163L    Acc Gen Chem for Sci Maj Lab	1	HS Chemistry or CHEM 105, 107L; Coreq CHEM 161	Fr
CHEM 221    Organic Chemistry I	3	C- or better in CHEM 131, 132L, 133, 134L or 161, 163L; Coreq CHEM 223L	Soph
CHEM 223L    Organic Chemistry I Lab	1	C- or better in CHEM 131, 132L, 133, 134L or 161, 163L; Coreq CHEM 221	Soph
CHEM 222    Organic Chemistry II	3	C- or better in CHEM 221, 223L; Coreq CHEM 224L	Soph
CHEM 224L    Organic Chemistry II Lab	1	C- or better in CHEM 221, 223L; Coreq CHEM 222	Soph
CHEM 231    Analytical Chemistry	3	C- or better in CHEM 131, 133L, 132, 134L or 161, 163L; Coreq CHEM 233L	Soph
CHEM 233L    Analytical Chemistry Lab	1	C- or better in CHEM 131, 133L, 132, 134L or 161, 163L; Coreq CHEM 231	Soph
CHEM 301    Laboratory Safety Management	1	CHEM 222, 224L	Jr
CHEM 320    Physical Chemistry	3	C- or better in CHEM 231, 233L; MATH 161 or 162; Coreq CHEM 322L	Jr
CHEM 322L    Physical Chemistry Lab	1	C- or better in CHEM 231, 233L; MATH 161 or 162; Coreq CHEM 320	Jr
CHEM 370    Adv Chemistry Topics	2	CHEM 222, 224L, 231, 233L	Jr/Sr
^CHEM 497    Seminar	2	CHEM major/minor and senior standing	Sr
<u>One of the following:</u>	3		
CHEM 250    Environmental Chemistry		CHEM 221, 223L or P/I	Soph
CHEM 340    Advanced Inorganic Chemistry		C- or better in CHEM 222, 224L, 231, 233L; Coreq CHEM-341L	Jr
CHEM 350    Biochemistry I		C- or better in CHEM 222, 224L Or BIOL 354	Jr
CHEM 365    Adv Physical Chemistry		C- or better in CHEM 320, 322L; MATH 162, 163	Jr
MATH 115    Elementary Statistics	3		Fr
MATH 161    Calculus I	4	C or better in MATH 130 or placement	
35-39 total hours			

**\*\*REMINDERS\*\***

1. B.A. candidates planning for a pre-medical, pre-dental, or pharmacy school track should also take BIOL 163, BIOL 164, PHYS 151 or 161, PHYS 152 or 162 by end of their second year.
2. CHEM 105-106 and labs do not count toward a major or minor in chemistry.

^Satisfies advanced writing requirement

NAME: \_\_\_\_\_

**B.A. Degree: Chemistry Major (for students entering in Fall 2024/Spring 2025)**

In the "WHAT" column, enter the specific course number when applicable--e.g. HIST 121. In the "WHEN" column, enter the term and year in which the requirement is satisfied--e.g., sp '20.

Liberal Arts Core	
WHAT	WHEN
_____	ENGL 101* w/ C (2.0) [3 hrs]
_____	ENGL 110 w/ C (2.0) [3 hrs]
_____	COMM 211 w/ C (2.0) [3 hrs]
_____	Dept senior seminar/writing course
_____	Met by: _____ CHEM 497 [2 hrs]
_____	FYEX 101 [3 hrs]
_____	FYEX 102 [1 hr]
_____	FYEX 103/104/105/106/107 [1 hr]
_____	FYEX 103/104/105/106/107 [1 hr]
_____	FYEX 401 [1 hr]
_____	Foundational Scientific Inquiry [3-4 hrs]
_____	Foundational Quantitative Analysis [3-4 hrs]

*No more than two lens courses may come from same departmental prefix and one lens must be taken at 300 level or above.*

_____	_____	Ethical/Spiritual Explor Lens (ETSP) [3 hrs]
_____	_____	Aesthetic Expression Lens (AEXP) [3 hrs]
_____	_____	Per & Soc Well Being Lens (PSWB) [3 hrs]
_____	_____	Cultural Perspectives Lens (CEXP) [3 hrs]
_____	_____	Experimental Inquiry Lens (EXIN) [3 hrs]

37 – 39 Total semester hours

\_\_\_\_\_ 120 semester hours required for graduation

\*Enter NA (not applicable) if waived upon admission

Chemistry Major (B.A.)	
WHAT	WHEN
_____	CHEM 161 [3 hrs]
_____	CHEM 163L [1 hr]
_____	OR
_____	CHEM 131 [3 hrs]
_____	CHEM 133L [1 hr]
_____	CHEM 132 [3 hrs]
_____	CHEM 134L [1 hr]
_____	CHEM 221 [3 hrs]
_____	CHEM 223L [1 hr]
_____	CHEM 222 [3 hrs]
_____	CHEM 224L [1 hr]
_____	CHEM 231 [3 hrs]
_____	CHEM 233L [1 hr]
_____	CHEM 301 [1 hr]
_____	CHEM 320 [3 hrs]
_____	CHEM 322L [1hr]
_____	CHEM 250/340/350/365 [3 hrs]
_____	CHEM 370 [2 hrs]
_____	CHEM 497 [2 hrs]
_____	MATH 115 [3 hrs]
_____	MATH 161 [4 hrs]
_____	35-39 semester hours
_____	120 semester hrs required for graduation

➤Departmentally approved substitutes may be taken in place of certain laboratories.

➤Students enrolled in a course for which there is a lab must also enroll in the lab or its approved substitute, except with approval of the department.

➤Except in specifically approved majors, a maximum of 52 hours in an academic discipline may count toward graduation. Three hours over the limit may count to accommodate an internship in the discipline.

➤ Only six hours of any minor may overlap with the required credit hours of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in others departments.