

## 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	3	*Coreq CHEM 133L	Fr
<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>				
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:	Fr
			Coreq CHEM 134L	
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	Fr
			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	
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131,	Soph
			132L, 133, 134L or 161,	
			163L; Coreq CHEM 223L	
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131,	Soph
			132L, 133, 134L or 161, 163L;	
			Coreq CHEM 221	
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L;	Soph
			Coreq CHEM 224L	
CHEM 224L	Organic Chemistry II Lab	1	C- or better in CHEM 221, 223L;	Soph
			Coreq CHEM 222	
CHEM 231	Analytical Chemistry	3	C- or better in CHEM 131,	Soph
			133L, 132, 134L or 161, 163L;	
			Coreq CHEM 233L	
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131,	Soph
			133L, 132, 134L or 161, 163L;	
			Coreq CHEM 231	
CHEM 301	Laboratory Safety Management	1	CHEM 222, 224L	Jr
CHEM 320	Physical Chemistry	3	C- or better in CHEM 231,	Jr
			233L; MATH 161 or 162;	
			Coreq CHEM 322L	
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231,	Jr
			233L; MATH 161 or 162;	
			Coreq CHEM 320	
CHEM 370	Adv Chemistry Topics	2	CHEM 222, 224L, 231, 233L	Jr/Sr
^CHEM 497	Seminar	2	CHEM major/minor	Sr
			and senior standing	
<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,	Jr
			224L, 231, 233L; Coreq	
			CHEM-341L	
CHEM 350	Biochemistry I		C- or better in CHEM 222, 224L	Jr
			Or BIOL 354	
CHEM 365	Adv Physical Chemistry		C- or better in CHEM 320, 322L;	Jr
			MATH 162, 163	
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 2023/Spring 2024)**

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.

General Education		Chemistry Major (B.A.)	
WHAT	WHEN	WHAT	WHEN
_____	ENGL 101* w/ C (2.0) [3 hrs]	_____	CHEM 161 [3 hrs]
_____	ENGL 110 w/ C (2.0)* [3 hrs]	_____	CHEM 163L [1 hr]
_____	COMM 211 w/ C (2.0) [3 hrs]		OR
	Dept senior seminar/writing course	_____	CHEM 131 [3 hrs]
	Met by: _____ CHEM 497 [2 hrs]	_____	CHEM 133L [1 hr]
		_____	CHEM 132 [3 hrs]
		_____	CHEM 134L [1 hr]
_____	FYEX 101 [3 hrs]		
_____	FYEX 102 [1 hr]	_____	CHEM 221 [3 hrs]
_____	FYEX 103/104/105/106/107 [1 hr]	_____	CHEM 223L [1 hr]
_____	FYEX 103/104/105/106/107 [1 hr]	_____	CHEM 222 [3 hrs]
_____	FYEX 401 [3 hrs]	_____	CHEM 224L [1 hr]
		_____	CHEM 231 [3 hrs]
_____	Foundational Scientific Inquiry [3-4 hrs]	_____	CHEM 233L [1 hr]
_____	Foundational Quantitative Analysis [3-4 hrs]	_____	CHEM 301 [1 hr]
		_____	CHEM 320 [3 hrs]
		_____	CHEM 322L [1hr]
		_____	CHEM 250/340/350/365 [3 hrs]
_____	Ethical/Spiritual Explor Lens (ETSP) [3 hrs]	_____	CHEM 370 [2 hrs]
_____	Aesthetic Expression Lens (AEXP) [3 hrs]	_____	CHEM 497 [2 hrs]
_____	Per & Soc Well Being Lens (PSWB) [3 hrs]	_____	MATH 115 [3 hrs]
_____	Cultural Perspectives Lens (CEXP) [3 hrs]	_____	MATH 161 [4 hrs]
_____	Experimental Inquiry Lens (EXIN) [3 hrs]		
		_____	35-39 semester hours
		_____	120 semester hrs required for graduation
	36 - 42 Total semester hours		
	_____ 120 semester hours required for graduation		

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

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

- 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.