

## 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
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	General Chemistry 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 I	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	Jr
CHEM 350	Biochemistry		C- or better in CHEM 222, 224L	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	

35-39 total hours

### \*\*REMINDERS\*\*

- B.A. candidates planning for a pre-medical, pre-dental, or pharmacy school track should also take BIOL 161 – Principles of Biology I in their first or, at latest, their second year.
- CHEM 105-106 and labs do not count toward a major or minor in chemistry.
- For placement in CHEM 131, a math ACT score of 20, SAT math of 500, grade of C or better in CHEM 105, MATH 110, 112, 115, 130 or 161 is strongly recommended.

^Satisfies advanced writing requirement

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

**B.A. Degree: Chemistry Major (for students entering in Fall 2018/Spring 2019)**

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 '00.

General Education		Chemistry Major (B.A.)	
WHAT	WHEN	WHAT	WHEN
_____	ENGL 101/INDS 106* w/ C (2.0) [3 hrs]	_____	CHEM 161 [3 hrs]
_____	ENGL 102/INDS 102* w/ C(2.0)* [3 hrs]	_____	CHEM 163L [1 hr]
_____	COMM 211/INDS 103 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]
_____	BIOL/CHEM/ENVS/PHSC/PHYS w/ lab [3 hrs]	_____	CHEM 132 [3 hrs]
	/INDS 112 [4 hrs]	_____	CHEM 134L [1 hr]
_____	MATH (except 112,141,203,205)/	_____	CHEM 221 [3 hrs]
	PSYC 225/230/INDS 114 [3-4 hrs]	_____	CHEM 223L [1 hr]
_____	RELG/INDS 111 [3-4 hrs]	_____	CHEM 222 [3 hrs]
_____	PHIL [3 hrs]/INDS 110 [4 hrs]	_____	CHEM 224L [1 hr]
_____	INDS 120 [3 hrs]/INDS 116 [4 hrs]	_____	CHEM 231 [3 hrs]
_____	Any literature course/INDS 113[3 hrs]	_____	CHEM 233L [1 hr]
	Fine Arts	_____	CHEM 301 [1 hr]
	_____ ART (except 265)/	_____	CHEM 320 [3 hrs]
	DANC/MUSC/THRE/ENGL 213/	_____	CHEM 250/340/350/365 [3 hrs]
	INDS 107 [3-4 hrs]	_____	CHEM 370 [2 hrs]
	OR	_____	CHEM 497 [2 hrs]
	_____ MUSC/THRE [2 hrs]	_____	MATH 115 [3 hrs]
	_____ same discipline [1 hr]	_____	MATH 161 [4 hrs]
	OR	_____	35-39 semester hours
	_____ MUSC/THRE [1 hr]	_____	120 semester hrs required for graduation
	_____ same discipline [1 hr]		
	_____ same discipline [1 hr]		
_____	HIST 100 or 200 level except HIST 201/		
	or INDS 117 [3-4hrs]		
_____	CJUS/GEOG/GNST/ECON/POLS/PSYC/		
	SOCI [3hrs]/INDS 104 [4 hrs]		
_____	US Cultural Studies [3 hrs]/INDS 109 [4 hrs]		
_____	Non-Western Cultural Studies [3 hrs]		
_____	/INDS 108 [4 hrs]		
_____	EXSC 110/120/121/130/201/240		
	[3 hrs]/INDS 105 [4 hrs]		

- Only six hours of any minor may overlap with the required credit hours of a student's chosen major.
- 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.
- The following limits apply when counting hours applicable toward the 120 required for graduation: 4 hours of physical activity (EXSC) and 8 hours of Music ensemble.

\*Enter NA (not applicable) if waived upon admission or if completing the honors program.