

## CHEMISTRY MAJOR (CHEM.BS)

<u>Required Courses</u>		<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
CHEM 131	Gen Chemistry for Sci Majors I	3	Coreq CHEM 133L	Fr
CHEM 133L	Gen Chemistry for Sci Maj I Lab	1	Coreq CHEM 131	
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM 131, 133L; Coreq CHEM 134L	Fr
CHEM 134L	Gen Chemistry for Sci Maj II Lab	1	Coreq CHEM 132	
	<u>OR</u>			
CHEM 161	Acc Gen Chem for Science Majors	3	HS Chem & placement or CHEM 105, 107L; Coreq CHEM 163L	Fr
CHEM 163L	Acc Gen Chem for Science Maj Lab	1	HS Chemistry & placement or CHEM 105, 107L; Coreq CHEM 161	Fr
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131, 133L, 132, 134L or 161,163L; Coreq CHEM 223L	Soph
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131, 133L, 132,134L or 161, 163L; Coreq CHEM 221	Soph
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L; Coreq 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 233L	Soph/Jr
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131, 133L, 132, Soph/Jr 134L or 161,163L; Coreq 231	
CHEM 301	Laboratory Safety Management	1	CHEM 222, 224L	Jr
CHEM 320	Physical Chemistry I	3	C- or better in CHEM 231, 233L, MATH 161 or 162; Coreq CHEM 322L	Jr
CHEM 322L	Physical Chemistry I Lab	1	C- or better in CHEM 231, 233L, MATH 161 or 162; Coreq CHEM 320	Jr
CHEM 340	Advanced Inorganic Chemistry	3	C- or better in CHEM 222, 224L, 231, 233L;Coreq CHEM 341L	Jr
CHEM 341L	Advanced Inorganic Chemistry Lab	1	C- or better in CHEM 231, 233L; Coreq CHEM 340	Jr
CHEM 350	Biochemistry	3	C- or better in CHEM 222, 224L	Jr
CHEM 351L	Molecular Cell Bio Lab	1	C- or better in CHEM 222, 224L; Coreq CHEM 350	Jr
CHEM 365	Advanced Physical Chemistry	3	C- or better in CHEM 320, 322L, MATH 162	Jr
CHEM 370	Adv Chemistry Topics I	2	CHEM 222, 224L, 231, 233L	Jr
CHEM 370	Adv Chemistry Topics I (diff topic)	2	CHEM 222, 224L, 231, 233L	Jr
CHEM 397/399	Research or Summer Research	0-3	CHEM 221, 223L, 231, 233L	Jr
^CHEM 497	Seminar	2	Sr Standing and CHEM major/minor	Sr
MATH 115	Elementary Statistics	3		Fr
MATH 161	Calculus I	4	C or better in MATH 130 or placement	Fr
MATH 162	Calculus II	4	C (2.0) or better in MATH 161; Pre or coreq MATH 163	Fr
MATH 163	Technology for Calculus	1	Coreq MATH 162	Fr
PHYS 151	General Physics I +	4	Official math placement or P/I	
PHYS 152	General Physics II	4	Official math placement or P/I	
	<u>OR</u>			
PHYS 161	General Physics I with Calculus +	4	Pre or Coreq MATH 161	
PHYS 162	General Physics II with Calculus	4	Pre or Coreq MATH 161	

58-64 total hours

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

1. Departmentally approved substitutes may be taken in place of certain labs.
2. CHEM 105-106 and labs do not count toward a major or minor in Chemistry.
3. 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 requiremen

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

**B.S. 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.S.)	
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]
_____	BIOL/CHEM/ENVS/PHSC/PHYS w/ lab [3 hrs]	_____	CHEM 221 [3 hrs]
_____	/INDS 112 [4 hrs]	_____	CHEM 223L [1 hr]
_____	MATH (except 112,141,203,205)/	_____	CHEM 222 [3 hrs]
_____	PSYC 225/230/INDS 114 [3-4 hrs]	_____	CHEM 224L [1 hr]
_____	RELG/INDS 111 [3-4 hrs]	_____	CHEM 231 [3 hrs]
_____	PHIL [3 hrs]/INDS 110 [4 hrs]	_____	CHEM 233L [1 hr]
_____	INDS 120 [3 hrs]/INDS 116 [4 hrs]	_____	CHEM 301 [1 hr]
_____	Any literature course/INDS 113[3 hrs]	_____	CHEM 320 [3 hrs]
	Fine Arts	_____	CHEM 322L [1 hr]
	_____ ART (except 265)/	_____	CHEM 340 [3 hrs]
	DANC/MUSC/THRE/ENGL 213/	_____	CHEM 341L [1 hr]
	INDS 107 [3-4 hrs]	_____	CHEM 350 [3 hrs]
	OR	_____	CHEM 351L [1 hr]
	_____ MUSC/THRE [2 hrs]	_____	CHEM 365 [3 hrs]
	_____ same discipline [1 hr]	_____	CHEM 370 [2 hrs]
	OR	_____	CHEM 370-different topic [2 hrs]
	_____ MUSC/THRE [1 hr]	_____	CHEM 397/399 [0-3 hrs]
	_____ same discipline [1 hr]	_____	CHEM 497 [2 hrs]
	_____ same discipline [1 hr]	_____	MATH 115 [3 hrs]
_____	HIST 100 or 200 level except HIST 201/	_____	MATH 161 [4 hrs]
_____	or INDS 117 [3-4hrs]	_____	MATH 162 [4 hrs]
_____	CJUS/GEOG/GNST/ECON/POLS/PSYC/	_____	MATH 163 [1 hr]
_____	SOCI [3hrs]/INDS 104 [4 hrs]	_____	PHYS 151/161 [4 hrs]
_____	US Cultural Studies [3 hrs]/INDS 109 [4 hrs]	_____	PHYS 152/162 [4 hrs]
_____	Non-Western Cultural Studies [3 hrs]/	_____	58-64 semester hours
_____	INDS 108 [4 hrs]		
_____	EXSC 110/120/121/130/201/240		
	[3 hrs]/INDS 105 [4 hrs]		
_____	120 semester hours required for graduation		

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

- 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.