

Bachelor of Science in Natural Science

Major: Chemistry

2019-2020 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA 2.0 Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 119	First Year Seminar		1	F	
CHEM 112/112L	General Chemistry I and Lab (SGR #6)	p. MATH 114 or higher			

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 329L	Organic Chemistry Lab III	p. CHEM 229/229L or CHEM 328/328L	2	S (even)	
CHEM 345	Quantum Mechanics of Chemical Systems	p. CHEM 343, MATH 125, and PHYS 213	2	F (odd)	
CHEM 347	Chemical Kinetics	p. CHEM 343 and PHYS 213	2	F (even)	
CHEM 432	Analytical Chemistry II	p. CHEM 332/332L	2	S (odd)	
CHEM 433	Bioanalytical Chemistry	p. CHEM 332/332L and CHEM 360 or CHEM 464	2	S (even)	
CHEM 448/448L	Biophysical Chemistry and Lab	p. MATH 125, CHEM 360 or CHEM 464	4	F	
CHEM 465	Biochemistry II	p. CHEM 360 or CHEM 464	3	S	
CHEM 482	Environmental Chemistry	p. CHEM 114 or CHEM 127 or CHEM 326	3	F (odd)	
CHEM 484	Chemical Toxicology	p. CHEM 360 or CHEM 464	3	F (even)	

As part of the Department of Chemistry and Biochemistry, students in this program must complete:

- ◁ a minimum of 33 upper division credits (300-400 level courses)
- ◁ a capstone course in the major (CHEM 498)
- ◁ a designated diversity, equity, and inclusion course AHSS 111 (or AIS 211 for teaching specialization students only) or a course in the major 6E