Simmons UNIVERSITY

Chemistry
Academic Planning Worksheet
2018-2019 Catalog

Notes

- Students are required to complete 61 credit hours.
- MATH 101 is recommended for students who need a review of basic mathematical concepts. By the middle of junior year, students should have taken MATH 220, PHYS 112 & 113.
- To meet the American Chemical Society (ACS) Certification, the student must include:
  - CHEM 248- Inorganic Chemistry (Junior Year)
  - CHEM 345- Biochemistry OR CHEM 223- Introduction to Biochemistry (Senior Year)
  - The two 300-level electives must be chosen from: CHEM 325, 341, 343, 345, 346, 347 or 354.
- See "Simmons PLAN & Graduation Requirements" worksheet for all-college requirements.

Major Core

Majors will complete a core of the following courses.

Course #	Course Title	Credits	Completed
First Year			
CHEM 113/ 115	Principles of Chemistry or Advanced General Chemistry	4	
CHEM 216	Quantitative Analysis	4	
MATH 120	Calculus I	4	
MATH 121	Calculus II	4	
Sophomore Year			
CHEM 224	Organic Chemistry I	4	
CHEM 225	Organic Chemistry II	4	
PHYS 112	Fundamentals of Physics I	4	
PHYS 113	Fundamentals of Physics II		
Junior Year			
CHEM 331	Thermodynamics and Kinetics	4	
CHEM 332	Quantum Mechanics and Molecular Structure	4	
MATH 220	Multivariable Calculus	4	
Senior Year			
CHEM 390	Chemistry Seminar		

Complete TWO 300-level Chemistry courses from the list below.

Courses Selected	Credits	Completed
	4	
	4	

CHEM 325	Green Asymmetric Synthesis
CHEM 341	Advanced Analytical Chemistry
CHEM 343	Advanced Topics in Modern Chemistry
CHEM 345	Biochemistry
CHEM 346	Advanced Organic Spectral Interpretation
CHEM 347	Advanced Topics in Biochemistry
CHEM 354	Research Methods

Capstone

Complete 8 credit hours in CHEM 355 to fulfill the Capstone Requirement in Chemistry.

Course #	Course Title	Credits	Completed
CHEM 355	Independent Study with Thesis	8	