

**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
<b>First Year</b>			
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	
<b>Sophomore Year</b>			
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		
<b>Junior Year</b>			
CHEM 331	Thermodynamics and Kinetics	4	
CHEM 332	Quantum Mechanics and Molecular Structure	4	
MATH 220	Multivariable Calculus	4	
<b>Senior Year</b>			
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	