

Chemistry

Recommended Four-Year Plan (Fall 2012)

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. These plans are the recommended sequences of courses. Students must meet with their Major Advisor to develop a more individualized plan to complete their degree. This plan assumes that no developmental courses are required. If developmental courses are needed, students may have additional requirements to fulfill which are not listed in the plan.

NOTE: This recommended Four-Year Plan is applicable to students admitted into the major during the 2012-2013 academic year.

First Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
GenEd: INTD 101-First Year Seminar	4		CHEM 112-Fundamentals of Chemistry II***	4	
GenEd: SOSC 101-Social Issues or MATH 110-Pre-Calculus	4		MATH 121-Calculus I	4	
GenEd: CRWT 102-Critical Reading & Writing II	4		GenEd: History	4	
CHEM 110-Fundamentals of Chemistry I***	4		GenEd: AIID 201-Readings in Humanities	4	
Total:	16		Total:	16	

Second Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 210-Organic Chemistry I***	4		CHEM 212-Organic Chemistry II***	4	
PHYS 114-Physics w/ Calculus I***	4		PHYS 115-Physics w/ Calculus II***	4	
MATH 122-Calculus II	4		MATH 225- Multivariable Calculus	4	
GenEd: Intercultural North America	4		GenEd: International Issues	4	
Total:	16		Total:	16	

Third Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 323-Analytical Chemistry***	4		CHEM 340-Physical Chemistry I*	3	
CHEM 425-Biochemistry*#	4		GenEd: Topics in Arts & Humanities or Topics in Social Science	4	
Elective	4		School Core: Science in Cultural Perspective Course	4	
GenEd: SOSC 101-Social Issues or Elective	4		CHEM Elective	4	
Total:	16		Total:	15	

Fourth Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 341-Physical Chemistry I**	1		CHEM 343-Physical Chemistry II**	1	
CHEM 342-Physical Chemistry II*	3		CHEM 424-Instrumental Analysis^	4	
CHEM Elective	4		CHEM 443-Advanced Inorganic Chemistry*** #	4	
Elective	4		Elective	4	
Elective	4		Elective	4	
Total:	16		Total:	17	

Total Credits Required: 128 credits

GPA: 2.0

***Lecture, **Lab, ***Lecture and Lab**

^The Instrumental Analysis (CHEM 424) capstone course is designed to draw from and build on content and skills learned during a student's progression through the major. The course includes both a lecture and laboratory component, with a significant writing component. In undertaking this course, students will demonstrate: a thorough understanding of the relevant chemistry material, an ability to apply problem-solving strategies, expertise in laboratory procedures and instrumentation, written communication skills. Requires prerequisite 300-level Physical Chemistry Courses.

Biochemistry (CHEM 425) and Advanced Inorganic Chemistry (CHEM 443) must be taken to be certified by the American Chemical Society