

Requirements for the Chemistry Minor – FA16/SP17

Prescribed Courses (16 Credits)	Credits	Letter Grade
CHEM 110 (GN) - Chemical Principles I	3	
CHEM 111 (GN) - Experimental Chemistry I	1	
CHEM 112 (GN) - Chemical Principles II	3	
CHEM 113 (GN) - Experimental Chemistry II	1	
CHEM 210 - Organic Chemistry I	3	
CHEM 212 - Organic Chemistry II	3	
CHEM 213W - Laboratory in Organic Chemistry	2	

Prescribed Courses (4-6 Credits) 4 Credits of: CHEM 221 or 227 <u>OR</u> 6 Credits of: CHEM 452 (3 Credits) and either CHEM 450 or 466 (3 Credits)	Credits	Letter Grade
CHEM 221 – Quantitative Analysis	4	
CHEM 450 or 466 – Physical Chemistry – Thermodynamics or Molecular Thermodynamics	3	
CHEM 452 – Physical Chemistry – Quantum Chemistry	3	

400 Level Chemistry Electives (6 credits)	Credits	Letter Grade
CHEM 402 – Chemistry in the Environment	3	
CHEM 406 – Nuclear and Radiochemistry	3	
CHEM 408 – Computational Chemistry	3	
CHEM 410 – Inorganic Chemistry	3	
CHEM 412 – Transition Metal Chemistry	3	
CHEM 423W – Chemical Spectroscopy	4	
CHEM 425W – Chromatography and Electrochemistry	3	
CHEM 427W – Forensic Chemistry	4	
CHEM 430 – Structural Analysis of Organic Compounds	3	
CHEM 431W – Organic and Inorganic Preparations	4	
CHEM 432 – Organic Reaction Mechanisms	3	
CHEM 448 – Surface Chemistry	3	
CHEM 457 – Experimental Physical Chemistry	2	
CHEM 459W – Advanced Experimental Physical Chemistry	4	
CHEM 464 – Chemical Kinetics and Dynamics	3	
CHEM 466 – Molecular Thermodynamics (if not used in above category)	3	
CHEM 476 – Biological Chemistry	3	
CHEM 497 – Special Topics (by permission)	3	

A grade of C or better is required for all courses in the minor. Courses from other majors cannot be substituted for these electives. For students with sufficient background, Chemistry courses at the 500 level may also be used.