



THE UNIVERSITY OF MICHIGAN-ANN ARBOR  
SCHOOL OF EDUCATION  
TEACHER EDUCATION PROGRAM

## Chemistry: MINOR Requirements for Secondary Teacher Certification

Please note: Major/minor requirements are subject to change. All candidates are expected to consult with a School of Education advisor as they plan and progress through their program.

Minors must complete a minimum of 26 credits including the following:

Course Number	Course Title	Credits	Completed?
Chemistry 125	General Chemistry Lab I	2	
Chemistry 130*	General Chemistry: Macroscopic Investigations and Reaction Principles	3	
Chemistry 210	Structure and Reactivity II	4	
Chemistry 211	Investigations in Chemistry	1	
Chemistry 215	Structure and Reactivity II	3	
Chemistry 216	Synthesis and Characterization of Organic Compounds	2	
Chemistry 241	Introduction to Chemical Analysis	2	
Chemistry 242	Introduction to Chemical Analysis Lab	2	
Chemistry 260	Chemical Principles	3	

\* If possible, students should take the studio section of Chemistry 130. This section is generally only offered in the fall. Please contact the Chemistry Department at (734) 763-7315 to identify which section is the studio section.

### Select one course:

Biology 310	Introductory Biochemistry	4	
Biology 311	Introductory Biochemistry	4	
Biochemistry 415	Introductory Biochemistry	4	

### Select a total of six credits from the following:

Chemistry 302/312	Inorganic Chemistry/Synthesis and Characterization (lab)	5	
Chemistry 402	Intermediate Inorganic Chemistry	3	
Chemistry 447	Physical Methods of Analysis	3	
Chemistry 461	Physical Chemistry I	3	
Chemistry 462	Computational Chemistry Lab	1	
Chemistry 463	Physical Chemistry II	3	
Chemistry 480	Physical and Instrumental Chemistry	3	

