CHEMISTRY MINOR

Chair

Mathew M. Maye, 1-014 Center for Science and Technology, 315-443-2146, mmmaye@syr.edu

Faculty

Atanu Acharya, Carlos A. Castañeda, Joseph Chaiken, Arindam Chakraborty, John D. Chisholm, Robert P. Doyle, John M. Franck, Jonathan French, James L. Hougland, Xiaoran Hu, Ivan V. Korendovych, Timothy M. Korter, Yan-Yeung Luk, Olga V. Makhlynets, Mathew M. Maye, Davoud Mozhdehi, Karin Ruhlandt, James T. Spencer, Michael B. Sponsler, Rachel Steinhardt, Nancy I. Totah, Weiwei Zheng

Major in Chemistry

The minor in chemistry is offered to provide students with a basic understanding of the structure and behavior of matter at the atomic and molecular level. Increasingly, the control of matter at the level of individual molecules is becoming the key ingredient in sweeping technological advances such as genetic engineering, micro and molecular electronics, advanced materials, and nanotechnology. A minor in chemistry offers a strong complement to major areas of study such as biology, physics, geology, psychology, engineering, pre-medicine, and pre-professional degree programs.

General Requirements

CHE 411

To complete a minor in chemistry, students take 20 credits carrying a CHE or BCM prefix, including courses that meet requirements A and B below. No part of the minor requirements may be met with transfer or AP credits, nor with CHE 290 Independent Study, CHE 490 Independent Study, CHE 450 Introduction to Chemical Research, BCM 460 Research in Biochemistry, or CHE 470 Experience Credit.

Code	Title Cr	edits
Lower-division		
Lower-division co	urses must include either of the following groups:	
CHE 106	General Chemistry Lecture I	3
or CHE 109	General Chemistry Lecture I (Honors and Majors)	
CHE 107	General Chemistry Laboratory I	1
or CHE 129	General Chemistry Laboratory I (Honors and Major	rs)
CHE 116	General Chemistry Lecture II	3
or CHE 119	General Chemistry Lecture II (Honors and Majors)	
Select one of the	following:	1-5
CHE 117	General Chemistry Laboratory II	
or CHE 139	General Chemistry Laboratory II (Honors and Majo	rs)
CHE 275	Organic Chemistry I	
& CHE 276	and Organic Chemistry I Laboratory	
Upper-division		
Upper-division co	urses must include 12 credits of CHE and BCM	12
	d above 299, including at least one lecture course	
from among the g	roup:	
CHE 325	Organic Chemistry II	
CHE 346	Physical Chemistry I	

Inorganic Chemistry

and at least one course with an instructional laboratory component. Examples of courses that satisfy the instructional laboratory requirement, and that mesh well with other requirements of the minor, are:

CHE 326	Organic Chemistry II Laboratory
CHE 335	Chemical and Biochemical Analysis with Laboratory
CHE 347	Physical-Analytical Chem Lab
CHE 422	Inorganic Laboratory Technique
CHE 477	Proteins and Nucleic Acids Lab

Total Credits 20-24