

CHEMISTRY, MINOR

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Thus, a minor in chemistry nicely complements any other science major.

Our alumni go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

The minor in Chemistry consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM.

Students must maintain an average GPA of 2.0 in all minor courses attempted at UWM. In addition, students must attain a 2.0 GPA on all minor courses attempted, including any transfer work. CHEM 106 does not count toward the minor and is not included in the minor GPA.

Code	Title	Credits
General Chemistry Requirement ¹		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
Select one course from three of the following areas: ²		5-10
<i>Analytical:</i>		
CHEM 221	Elementary Quantitative Analysis	
CHEM 524	Instrumental Analysis	
<i>Biochemistry:</i>		
CHEM 501	Introduction to Biochemistry	
CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 603	Introduction to Biochemistry Laboratory	
CHEM 604	Biochemistry: Metabolism	
<i>Inorganic:</i>		
CHEM 311	Introduction to Inorganic Chemistry	
CHEM 511	Inorganic Chemistry	
CHEM 614	Bio-Inorganic Chemistry	

<i>Organic:</i>	
CHEM 341	Introductory Survey of Organic Chemistry
CHEM 342	Introductory Organic Chemistry Laboratory
CHEM 343	Organic Chemistry
CHEM 344	Organic Chemistry Laboratory
CHEM 345	Organic Chemistry
<i>Physical:</i>	
CHEM 560	Biophysical Chemistry
CHEM 561	Physical Chemistry I
CHEM 562	Physical Chemistry II
CHEM 563	Physical Chemistry Laboratory
Total Credits	15-20

¹ Students without high school chemistry or whose background in science is weak may need to take CHEM 100 prior to enrolling in CHEM 102.

² At least one course with a laboratory, beyond general chemistry, must be taken.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, chem-ugc@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

<https://uwm.edu/chemistry/undergraduate/>