

# CHEMISTRY

Department of Chemistry and Physics (<https://cas.umw.edu/chemistry/>)

The study of the structure, properties, and reactivity of matter, Chemistry has been titled the “central science” because of its focal position in a fundamental understanding of other scientific branches, such as biology, medicine, pharmacy, physics, environmental studies, and geology. The minor in Chemistry allows students with interests in these fields to explore the overlap between their disciplines and this “central science.” The Chemistry minor fosters both breadth in appreciation of the many facets of the chemical sciences and depth of understanding of each subspecialty. The flexibility afforded by the Chemistry curriculum frees students to tailor the minor to their specific interests, while providing a rigorous academic background for further study.

For instance, an interdisciplinary, **Biochemistry-oriented minor** can be designed with the choices of:

Code	Title	Credits
CHEM 211 & CHEM 212	Organic Chemistry I and Organic Chemistry II	8
CHEM 317 & CHEM 318	Biochemistry I and Biochemistry II	6
CHEM 319	Biochemistry Laboratory I	1

While a **General Chemistry minor** might include:

Code	Title	Credits
CHEM 211 & CHEM 212	Organic Chemistry I and Organic Chemistry II	8
CHEM 317	Biochemistry I	3
CHEM 343	Inorganic Chemistry	3
CHEM 383A	Physical Chemistry I	3

## Minor Requirements

Code	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
Select one of the following sequences:		8
CHEM 211 & CHEM 212	Organic Chemistry I and Organic Chemistry II	
CHEM 253 & CHEM 254	Chemical Analysis I and Chemical Analysis II	
Select three of the following: <sup>1</sup>		7-9
CHEM 317	Biochemistry I	
CHEM 318	Biochemistry II	
CHEM 319	Biochemistry Laboratory I	
CHEM 343	Inorganic Chemistry	
CHEM 345	Inorganic Chemistry Laboratory	
CHEM 383A	Physical Chemistry I	
CHEM 384A	Physical Chemistry II	
CHEM 387A	Physical Chemistry Laboratory I	

**Total Credits**

**23-25**

<sup>1</sup> No more than one of the three 300-level courses may be a laboratory course.

## Chemistry Faculty

K. Nicole Crowder, Chair  
Janet A. Asper, Career Advisor

### Professors

Janet A. Asper  
K. Nicole Crowder  
Kelli M. Slunt

### Associate Professors

Leanna C. Giancarlo  
E. Davis Oldham  
Randall D. Reif

### Assistant Professors

Sarah E. Smith