

# CHEMISTRY, MINOR - LIBERAL ARTS

## Liberal Arts (Code 100-405)

Code	Title	Credits
A minimum of 24 semester credits, including:		
<b>Chemistry Core</b>		
Select one of the following: <sup>1</sup>		6
CHEM 115	Chemical Principles	
CHEM 105 & CHEM 106 & CHEM 109	General Chemistry I Lecture and General Chemistry I Laboratory and General Chemistry II with Lab	
Additional Required:		
CHEM 218	Introduction to Inorganic Chemistry	3
CHEM 325	Organic Chemistry I with Laboratory	4
CHEM 326	Organic Chemistry II with Laboratory	4
CHEM 213 or CHEM 352	Quantitative Analysis Fundamentals of Biochemistry	4
<b>Total Core Credits</b>		<b>21</b>
<b>Elective(s)</b>		
Remaining credits selected from:		
CHEM 213	Quantitative Analysis	
CHEM 304	Environmental Chemistry	
CHEM 318	Bioinorganic Chemistry	
CHEM 352	Fundamentals of Biochemistry	
CHEM 361	Molecules and Medicine	
CHEM 406	Biophysical Chemistry	
CHEM 411	Survey of Industrial Chemistry	
CHEM 426	Modern Organic Chemistry	
CHEM 433	Physical Chemistry I	
CHEM 434	Physical Chemistry II	
CHEM 460	Polymer Chemistry	

Other advanced courses may be approved by petition.

<sup>1</sup> Only six credits of the CHEM 105/CHEM 106/CHEM 109 sequence are credited to the minor.

## Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- **Structure and Bonding:** Students can describe the structural properties of matter, as well as rationalize and predict chemical stability or physical properties on the basis of structure.
- **Reactivity and Stability:** Students can classify and rationalize chemical transformations, and predict and quantify products.
- **Laboratory Skills:** Students will become proficient in rudimentary laboratory techniques.
- **Chemical Safety:** Students will function safely in a chemical laboratory, and will manage waste effectively.