

# Chemistry

Bachelor of Science

The Chemistry program helps students understand current global issues, such as energy, food, water, health and environmental problems. Extensive training in methodology prepares students to contribute responsible solutions to their communities through a broad range of career options or continuing educational opportunities.

## Career Options:

- Environmental Testing
- Laboratory Research
- Waste Analysis and Treatment
- Pharmaceuticals
- Forensics
- Public Health

## Major Requirements:

General Chemistry I w/Lab  
General Chemistry II w/Lab  
Organic Chemistry w/Lab  
Organic Chemistry II w/Lab  
Analytical Chemistry w/Lab  
Physical Chemistry w/Lab  
Senior Seminar  
Chemistry - 8 semester hours in any upper level lecture w/Labs  
Chemistry - Two semester hours of independent research  
General Physics I w/Lab  
General Physics II w/Lab  
Calculus I

## Minor Requirements:

(24 semester hours)  
General Chemistry I w/Lab  
General Chemistry II w/Lab  
Three additional upper level Chemistry courses, including lab.

## Department Contact:

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## General Education Requirements

<b>I. Interdisciplinary Requirements</b>	<b>Credits</b>	<b>IV. Humanities Courses</b>	<b>Credits</b>
Ethics	3	Religion	3
International Studies	3	English Composition	6
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Total Hours	6	Art, Music or Entertainment/Theatre	3
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<b>II. Science Courses</b>	<b>Credits</b>	Total Hours	15
Mathematics	3	<b>TOTAL GENERAL EDUCATION HOURS</b>	<b>41</b>
Biology, including lab	4		
Physics, Earth Science or Chemistry, incl. lab	4		
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Total Hours	11		
		Unless otherwise specified, transferred credits may be used to fulfill the general requirements at the Registrar's discretion.	
<b>III. Social Science Courses</b>	<b>Credits</b>		
History, Political Science	3		
Communication, Economics, Geography or Criminal Justice	3		
Psychology or Sociology	3		
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Total Hours	9		

## Major Requirements

	Credits		Credits
CHM 111 General Chemistry I	3	CHM 361 Physical Chemistry	3
CHM 112 General Chemistry I Lab	1	CHM 362 Physical Chemistry Lab	1
CHM 121 General Chemistry II	3	CHM 401 Independent Study in Chemistry	2
CHM 122 General Chemistry II Lab	1	CHM 412 Senior Seminar	3
CHM 301 Organic Chemistry	3	CHM Any upper level lectures & labs	8
CHM 302 Organic Chemistry Lab	1	PHY 211 General Physics I	3
CHM 311 Organic Chemistry II	3	PHY 212 General Physics I Lab	1
CHM 312 Organic Chemistry II Lab	1	PHY 221 General Physics II	3
CHM 341 Analytical Chemistry	3	PHY 222 General Physics II Lab	1
CHM 342 Analytical Chemistry Lab	1	MAT 121 Calculus	4

### General Graduation Guidelines:

Total of 120 semester hours, 39 of which must be numbered 300 or 400.

(Other programs may require coursework beyond 120 semester hours.)

At least 9 semester hours of courses designated as writing intensive.

A declared major.

A cumulative GPA average of C (2.00) and at least a C average in the graduation major.