# CHEMISTRY AND BIOCHEMISTRY

University of Northern Iowa College of Humanities, Arts & Sciences
https://chemistry.uni.edu/

## About The Major
Chemistry is the study of matter and change. It is a broader category of science encompassing all forms of matter composition and structure. Biochemistry, on the other hand, is a more specific discipline that studies the chemistry of life - how life works at the molecular level, what kinds of chemical reactions occur in cells, and how these reactions give an organism its observed characteristics.

## Sample Course Work
- General Chemistry I & II
- Organic Chemistry
- Physical Chemistry I & II
- Biochemistry I & II
- Descriptive Inorganic Chemistry
- Genetics

## Possible Careers
*Some titles may require further education*

<table>
<thead>
<tr>
<th>Dentist</th>
<th>Quality Assurance</th>
<th>Chemical Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forensic Scientist</td>
<td>Researcher</td>
<td>Analytical Scientist</td>
</tr>
<tr>
<td>Patent Law</td>
<td>Technical Sales</td>
<td>Nursing</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>Veterinarian</td>
<td>Pharmaceutical Sales</td>
</tr>
</tbody>
</table>

## UNI Graduates: Where Are They Now?
- University of Northern Iowa
- University of Iowa
- Cambrex
- DuPont Pioneer
- Integrated DNA Technologies
- Cargill
- University of Iowa Healthcare
- Thermo Fisher Scientific
- USDA
- AbbVie
- PPD
- Garratt-Callahan Company
- Eurofins
- Hach
- Albany Molecular Research Inc.
- Analytical Chemistry & Media

## Skills Needed
- Patience
- Flexibility
- Numerical Skills
- Advanced Attention to Detail and Accuracy
- Written and Oral communication
- Data Analysis
- Research Skills
- Information Technology Skills