# Chemistry/Biochemistry

**University of Northern Iowa College of Humanities, Arts & Sciences**

[https://chemistry.uni.edu/](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 Coursework

<table>
<thead>
<tr>
<th>General Chemistry I and II</th>
<th>Organic Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry I and II</td>
<td>Descriptive Inorganic Chemistry</td>
</tr>
<tr>
<td>Physical Chemistry I and II</td>
<td>Undergraduate Research in Chemistry</td>
</tr>
<tr>
<td>Biochemistry I and II</td>
<td></td>
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</tbody>
</table>

## Possible Careers

<table>
<thead>
<tr>
<th>Dentist</th>
<th>Nursing</th>
<th>Quality Assurance</th>
<th>Chemical Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forensic Scientist</td>
<td>Patent Law</td>
<td>Researcher</td>
<td>Geochemist</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>Pharmaceutical Sales</td>
<td>Technical Sales</td>
<td>Pharmacologist</td>
</tr>
<tr>
<td>Industrial Chemist</td>
<td>Pharmacist</td>
<td>Veterinarian</td>
<td>Materials Scientist</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.

## Skills Needed

- Patience
- Flexibility
- Numerical skills
- Analytical skills
- Advanced attention to detail and accuracy
- Written and oral communication skills
- Data analysis
- Research skills
- Information technology skills

## Holland Codes

**IRS**