Chemistry is the study of the composition, structure, properties, and reactions of matter, so the study of chemistry is central to understanding many other scientific disciplines. All human activities deal with a material world, which consists of chemicals, both natural and manufactured. The contributions of chemistry to modern society occur in such diverse fields as pharmaceuticals, polymers and plastics, agricultural chemicals, petroleum products, and biotechnology. The Bachelor of Science curriculum is designed for students seeking to become professional chemists and the Bachelor of Arts curriculum is intended for students who want to have a background in chemistry as a basis for future work in other areas of science, such as the life sciences, or in such professional areas as medicine or veterinary medicine.

### Career Areas/Job Titles:

<table>
<thead>
<tr>
<th>Government &amp; Management</th>
<th>Bio-information Analyst</th>
<th>Dentist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Sales Representative</td>
<td>Chemical Process Engineer</td>
<td>Medical Doctor</td>
</tr>
<tr>
<td>Forensic Scientist</td>
<td>Food Scientist</td>
<td>Optometrist</td>
</tr>
<tr>
<td>Geo/Environmental Chemist</td>
<td>Medicinal Scientist</td>
<td>Pharmaceutical Lab Scientist</td>
</tr>
<tr>
<td>Healthcare Administrator</td>
<td>Petroleum Chemist</td>
<td>Pharmacist</td>
</tr>
<tr>
<td>Marketing Coordinator</td>
<td>Quality Control Specialist</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Scientific/Technical Consultant</td>
<td>Textile Chemist</td>
<td>Physical Therapist</td>
</tr>
</tbody>
</table>

**Education**

- College Instructor
- K-12 Teacher
- Professor
- Researcher

**Industry, Science & Tech.**

- Bio-information Analyst
- Chemical Process Engineer
- Dentist
- Chemical Sales Representative
- Food Scientist
- Medical Doctor
- Geo/Environmental Chemist
- Medicinal Scientist
- Optometrist
- Healthcare Administrator
- Petroleum Chemist
- Pharmaceutical Lab Scientist
- Marketing Coordinator
- Quality Control Specialist
- Pharmacist
- Scientific/Technical Consultant
- Textile Chemist
- Physician Assistant
- Education
- Journalist
- Physical Therapist

**Health Professions**

- Dentist
- Medical Doctor
- Medical Doctor
- Optometrist
- Ophthalmologist
- Pharmaceutical Lab Scientist
- Pharmacist
- Physician Assistant
- Physical Therapist
- Radiologist
- Veterinarian

*Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

### Transferable Skills:

- Analytical / Critical Thinking
- Develop Theories
- Formulate Hypotheses
- Gather Information
- Laboratory Skills
- Computer Troubleshooting
- Delegating Tasks
- Organization Skills
- Implementing Theories
- Managing Time/Stress
- Forecasting/Predicting
- Initiative
- Creating Innovative Solutions
- Experimental Design
- Strategic Planning/Visioning
- Facilitate Discussion
- Teamwork
- Editing
- Written Communication

*This is not an extensive list of transferable skills. See larger list of skills you might develop here: [http://ccss.osu.edu](http://ccss.osu.edu)*

**Professional Links:**

- The Chemistry Club of The Ohio State University: [http://chemistry.osu.edu/undergraduate/chemistry_club](http://chemistry.osu.edu/undergraduate/chemistry_club)
- American Chemical Society: [www.acs.org/](http://www.acs.org/)