Chemistry is an important and useful study if you want to enter a health profession. The chemistry health sciences degree at Wayne State College takes the study of chemistry and focuses it on the health and medical fields. This focus allows you to connect and understand the physical and biological sciences and how they relate to the medical profession. With a chemistry health sciences degree, you will be prepared to move on with career possibilities such as a physician, pharmacist, or similar health profession, or graduate work in chemistry.

Skills Learned
- Chemical processes and materials
- Chemical experiment and design
- Modern equipment usage
- Analytical, organic, and inorganic chemistry
- Biochemistry
- Molecular genetics
- Human anatomy
- Probability and statistics
- University physics and experimentation
- Advanced lab techniques and management
- Critical thinking and problem-solving

Possible Careers
- Doctor / physician
- Medical lab technician
- Medical research scientist
- Pharmacist
- Biochemical researcher
- Pathologist
- Toxicologist
- Forensic scientist
- Chemical engineer
- Chemist

Types of Employers
- Hospitals and medical clinics
- Medical research labs
- Pharmaceutical companies
- Schools, colleges, and universities
- Environmental agencies
- Public health organizations
- Government / federal agencies
- Non-profit organizations
- Chemical companies
- Cosmetic companies
- Manufacturing companies

Activities / Opportunities
- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

Clubs / Organizations
- Biology Club
- Health Science Club
- Student Red Cross

FAST FACTS

Hours:
55 hours for concentration
30 hours in general education
At least 120 hours are required for graduation from Wayne State College. You may add a second major, a minor, or electives to help meet these requirements.

Degrees offered: B.A. or B.S.

Department: Physical Sciences and Mathematics

School: Natural and Social Sciences

Research: Individualized research experience designed for your interest

Popular minors: Biology, Psychology, Physics, Spanish

Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.
**SAMPLE PROGRAM OF STUDY**

*Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. For questions about this content, please see your advisor.*

Students must complete the listed coursework below in addition to meeting the Core Academic Tenets (CATs) of the General Studies program. A minimum of 120 credits are needed for graduation. RHOP students must earn a B.S. degree from WSC prior to transfer to UNMC. Internships are also recommended; talk to your advisor or Career Services.

<table>
<thead>
<tr>
<th>FRESHMAN - 1st semester</th>
<th>JUNIOR - 1st semester</th>
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</thead>
<tbody>
<tr>
<td>BIO 110 Biology Concepts</td>
<td>BIO 320 Molecular Genetics</td>
</tr>
<tr>
<td>CHE 106 General Chemistry I</td>
<td>CHE 305 Analytical Chemistry</td>
</tr>
<tr>
<td>ENG 102 Composition Skills (General Studies CAT 1)</td>
<td>FCS 207 Nutrition (General Studies CAT 9)</td>
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<tr>
<td><strong>Electives</strong></td>
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<tr>
<th>FRESHMAN - 2nd semester</th>
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<tbody>
<tr>
<td>CHE 107 General Chemistry II</td>
<td>BIO 340 Human Physiology</td>
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<tr>
<td>MAT 140 Calculus I</td>
<td>MAT 180 Applied Probability and Statistics</td>
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<tr>
<td>PSY 101 General Psychology (General Studies CAT 5)</td>
<td><strong>Electives</strong></td>
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<tr>
<th>SOPHOMORE - 1st semester</th>
<th>SENIOR - 1st semester</th>
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<tbody>
<tr>
<td>BIO 220 Human Anatomy</td>
<td>BIO 385 Microbiology</td>
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<tr>
<td>CHE 314 Organic Chemistry I</td>
<td>CHE 326 Biochemistry I</td>
</tr>
<tr>
<td>PHY 301 University Physics I</td>
<td>PHI 105 Ethics and Values (General Studies CAT 6)</td>
</tr>
</tbody>
</table>
| PHY 321 Physics I Lab | CHE elective (take one of the following):

  *CHE 380 Instrumental Analysis |
  | CHE 390 Inorganic Chemistry |
  | CHE 456 Physical Chemistry I |
| **Electives** | **Electives** |

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<tr>
<th>SOPHOMORE - 2nd semester</th>
<th>SENIOR - 2nd semester</th>
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<tr>
<td>CHE 315 Organic Chemistry II</td>
<td><strong>Bio 486 Immunology</strong></td>
</tr>
<tr>
<td>PHY 302 University Physics II</td>
<td>CHE 426 Biochemistry II</td>
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<tr>
<td>PHY 322 Physics II Lab</td>
<td><strong>Electives</strong></td>
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</tbody>
</table>

*CHE 380 offered as directed study as needed.**

**See advisor**

***Recommended but not required**

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Mary Ettel, Ph.D.
Paul Karr, Ph.D.
Todd Young, Ph.D.
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2018-19 Academic Year

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