### CHEMISTRY

Toward a Bachelor of Science Degree or a Bachelor of Arts Degree

Minimum 62 hours

Transfer Curriculum • Associate in Science Degree • Minimum 2.0 OGPA • Major Code: DAS

This curriculum is designed for transfer to four year institutions for this major. Consult the website of the four year institution where you plan to transfer, regarding specific course needs, requirements and deadlines.

## FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 121</td>
<td>Rhetoric &amp; Composition I</td>
</tr>
<tr>
<td>MATH 161</td>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>BIOL 221</td>
<td>General Biology I</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hrs</th>
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</thead>
<tbody>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 122</td>
<td>Rhetoric &amp; Composition II</td>
</tr>
<tr>
<td>MATH 162</td>
<td>Calculus I</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>BIOL 222</td>
<td>General Biology II</td>
</tr>
<tr>
<td>PHIL 122</td>
<td>Fundamentals of Logic</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>20</td>
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</table>

## SECOND YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hrs</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>COM 121</td>
<td>Principles of Speaking</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Calculus II</td>
</tr>
<tr>
<td>CHEM 241</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SOCIAL AND BEHAVIORAL SCIENCES (See Below)</td>
<td>3</td>
</tr>
<tr>
<td>FINE ARTS (See Below)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 242</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
</tr>
<tr>
<td>SOCIAL AND BEHAVIORAL SCIENCES (See Below)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</tr>
</tbody>
</table>

The bolded classes on this curriculum guide indicate the minimum a student must complete in order to receive an Associate degree. See advisor for specific transfer information.

**Recommended Course:** MATH 225-3 Differential Equations

**Suggested electives:** BTC 121-3 Scientific Literature for Biotech, BTC 221-4 Introduction to Biotechnology, BTC 241-3 Immunology for Biotechnology, or BTC 242-3 Cell & Molecular Biology.

Physical Chemistry majors: take MATH 222-4 Calculus III

If pursuing a Forensic Science minor: take CRJ 112-3 Criminal Behavior, CRJ 136-3 Intro to Criminal Justice, and PHIL 221-3 Ethics.

It is suggested that students take classes during the summer to lessen course loads in the fall and spring semesters.

### FINE ARTS: 3 semester hours

<table>
<thead>
<tr>
<th>Area</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ART 121-3 (F2 900) Art Appreciation</td>
</tr>
<tr>
<td>2</td>
<td>ART 222-3 (F2 901) Prehistory to Medieval Art</td>
</tr>
<tr>
<td>3</td>
<td>ART 223-3 (F2 902) Renaissance to Contemporary Art</td>
</tr>
</tbody>
</table>

### SOCIAL & BEHAVIORAL SCIENCES: 6 semester hours. Courses must be taken from two different areas – one course must be selected from Area 1.

<table>
<thead>
<tr>
<th>Area</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ECE 141-3 (S5 903) Child Development</td>
</tr>
<tr>
<td>2</td>
<td>HIST 121-3 (S2 902) Western Civilization to 1848</td>
</tr>
<tr>
<td>3</td>
<td>ECON 121-3 (S3 901) Macroeconomics</td>
</tr>
</tbody>
</table>

Additional courses may be selected from the following:

- PSYC 121-3 (S6 900) Intro Psychology
- PSYC 221-3 (S6 903) Child Psychology
- PSYC 222-3 (S6 904) Intro to American Psychology
- SOC 121-3 (S7 900) Intro Sociology
- SOC 221-3 (S7 902) The Family in Society
- HIST 141-3 (S2 901N) Latin American History
- HIST 161-3 (S2 906N) African Culture
- GOVT 121-3 (S5 900) American Government
- GOVT 228-3 (S5 904N) Intro International Relations

### Career Opportunities:

Analytical Chemist, Organic Chemist, Biochemist, Forensic Scientist, Food Chemist, Industrial Chemist, Nuclear Chemist, Polymer Chemist, Inorganic Chemist, Physical Chemist, Environmental Chemist, Agricultural Chemist, Chemical Analyst, Medical Research Chemist, Quality Control Chemist, Colorist, Assayer, Water Purification Tester, Pollution Control Technician, Technical Writer, Chemical or Industrial Sales Representative, Chemical Laboratory Technician, Chemistry Teacher

### Major Employers:

Manufacturing Firms Including Pharmaceutical, Chemical, Food, and Agricultural Firms; Government Agencies Including U.S. Departments of Defense, Commerce, Justice, and Agriculture; Medical Research Laboratories; Colleges and Universities, Schools; Research and Development Laboratories; Commercial Testing Laboratories.

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