**SUGGESTED PROGRAM – BACHELOR OF SCIENCE IN CHEMISTRY**

**FIRST YEAR**

### Fall Semester Suggested Program

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1303. First Year Writing I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1331 and 1111. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1431. Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Social Sciences Core Course</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1377. The United States to 1877 or equivalent</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
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</table>

### Spring Semester Suggested Program

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1304. First Year Writing II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1332 and 1112. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1432. Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1378. The United States Since 1877 or equivalent</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

### Fall Semester Suggested Program

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2233 and CHEM 2133. Inorganic Chemistry I and Inorganic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2433. Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 321. University Physics I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
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### Spring Semester Suggested Program
<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3369 and 3119. Analytical Chemistry and Analytical Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1322 and PHYS 1121. University Physics II and Physics Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321. Engineering Math</td>
<td>3</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

**THIRD YEAR**

**Fall Semester Suggested Program**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4372. Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4272. Physical Chemistry II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>POLS 1336. U.S. and Texas Constitutions and Politics or equivalent</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences Approved Course</td>
<td>3</td>
</tr>
<tr>
<td>Visual/Performing Arts Core Course</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1122. Physics Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

**Spring Semester Suggested Program**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4370. Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4270. Physical Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>POLS 1337. U.S. Government: Congress, President and Courts or equivalent</td>
<td>3</td>
</tr>
<tr>
<td>Writing in the Discipline Core Course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Core Course</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

**FOURTH YEAR**

**Fall Semester Suggested Program**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 4369. Instrumental Methods of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4229. Instrumental Methods of Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Natural Sciences Approved Course</td>
<td>3</td>
</tr>
</tbody>
</table>
### Spring Semester Suggested Program

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4365. Inorganic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4115. Inorganic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>Either CHEM 3336. Organic Chemistry of Biological Molecules or CHEM 4336. Fundamental Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry Elective</td>
<td>3</td>
</tr>
<tr>
<td>NSM Capstone, Minor, or Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>