### Chemistry BS / Accelerated 3-Year Plan (Sample)

This academic map is a sample 3-year schedule to complete your major in an accelerated format. *This map assumes students have Advanced or AP Credit for Chem 1111 and Math placement into MATH 1800. This map is not a substitute for academic advisement. Contact your advisor when making final selections. Courses in red text should be taken in the semester shown. This will help you graduate on time. *Recommended course to fulfill elective requirement. You may choose a different course as you prefer.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td><strong>Fall Year 1</strong></td>
<td>CHEM 1121</td>
<td>Introductory Chemistry II</td>
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<td>MATH 1800</td>
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<td>CHEM 1000</td>
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<td>CHEM 2612</td>
<td>Organic Chemistry I</td>
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<td>MATH 1900</td>
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<td>GEN ED</td>
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<td>HIST 1001</td>
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<td>CHEM 2622</td>
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<td>CHEM 3022</td>
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<td>CHEM 4343</td>
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<td>CHEM 3905</td>
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<td>Chemical Research</td>
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<td>PHYSICS 2112</td>
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<td><strong>Total</strong></td>
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</table>

*Control the pace* by taking courses in the two-week January term or as Advanced Credit (ACP) courses in high school to lighten the load.
Our graduates are heavily recruited by the chemical and life sciences industry. Our alumni have led innovation at large companies in the St. Louis region. Our graduates are regularly accepted into many of the top 20 chemistry graduate programs and into medical or dental schools. Still others have forged their own way in business and law. This breadth reflects the value of chemistry training in a wide array of professional settings.

**Example Career Pathways**
- Research & Development
- Applied Research and Product Development
- Cheminformatics
- Chemical Engineering
- Chemical Technology
- Crystallography
- Dyes, Pigments and Inks
- Industrial Management
- Laboratory Management
- Project Management

**SKILLS**
- Understand essential principles of the foundational areas of chemistry and apply them to solve chemical problems
- Employ investigative and quantitative methods for chemistry research
- Critically evaluate existing scientific studies
- Design studies to test hypotheses addressing unsolved problems in chemistry
- Know scientific software, and statistical and regression analysis
- Perform and document laboratory experiments
- Work independently or as part of a small team
- Identify the need for, gather and analyze information

**TAKE THE NEXT STEP**

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