### Metropolitan Community College — Missouri S&T

**Chemistry BA Transfer Guide**

**Effective as of Fall 2023**

<table>
<thead>
<tr>
<th>Metropolitan Community College</th>
<th>Missouri S&amp;T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication Skills (Take all courses)</strong></td>
<td><strong>Communication Skills (Take all courses)</strong></td>
</tr>
<tr>
<td>ENGL 101 Composition and Reading I 3</td>
<td>ENGL 1120 Exposition and Argumentation 3</td>
</tr>
<tr>
<td>ENGL 102 Composition and Reading II 3</td>
<td>ENGL 1160 Writing and Research 3</td>
</tr>
<tr>
<td>Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages) 12</td>
<td>Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages) 12</td>
</tr>
<tr>
<td><strong>Total Hours 18</strong></td>
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<thead>
<tr>
<th><strong>Mathematics and Sciences (Take all courses)</strong></th>
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</thead>
<tbody>
<tr>
<td>MATH 180 Analytic Geometry &amp; Calculus I 5</td>
<td>MATH 1214 Calculus I 4</td>
</tr>
<tr>
<td>MATH 190 Analytic Geometry &amp; Calculus II 5</td>
<td>MATH 1215 Calculus II 4</td>
</tr>
<tr>
<td>CHEM 111 General College Chemistry I 5</td>
<td>CHEM 1310, 1319 General Chemistry I and Lab 5</td>
</tr>
<tr>
<td>CHEM 112 General College Chemistry II 5</td>
<td>CHEM 1320, 1510 General Chemistry II and Qualitative Analysis 5</td>
</tr>
<tr>
<td><strong>Total Hours 20</strong></td>
<td><strong>Total Hours 18</strong></td>
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<thead>
<tr>
<th><strong>Humanities</strong> (Select up to 9 hours to include at least one literature course.)</th>
<th><strong>Social Sciences</strong> (Select up to 12 hours in two areas, to include History 1100 and 1200)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 220 or British Literature to 1750 or 3</td>
<td>HIST 133 Foundations of Western Civilization (required) 3</td>
</tr>
<tr>
<td>ENGL 222 or American Literature I or 3</td>
<td>HIST 134 Modern Western Civilization (required) 3</td>
</tr>
<tr>
<td>ENGL 254 or World Literature I or 3</td>
<td>ECON 211 or Microeconomics or 3</td>
</tr>
<tr>
<td>ENGL 260 or African-American Literature or 3</td>
<td>ECON 210 Macroeconomics 3</td>
</tr>
<tr>
<td>ENGL 262/268 Women's Lives and Autobiography/Women's Literature (or other literature elective) 3</td>
<td>POLS 136 Introduction to American Politics 3</td>
</tr>
<tr>
<td>ART 108 or Survey of Art or 3</td>
<td>PSYC 140 General Psychology 3</td>
</tr>
<tr>
<td>MUSI 108 or Music Appreciation or 3</td>
<td>HIST 120 United States History to 1865 3</td>
</tr>
<tr>
<td>SPDR 106 Theatre Appreciation (or other fine art) 3</td>
<td>HIST 121 United States History since 1865 3</td>
</tr>
<tr>
<td>PHIL 100 Introduction to Philosophy 3</td>
<td>Other history, economics, political science, psychology, or sociology 3</td>
</tr>
<tr>
<td>Other fine art, literature, or philosophy elective 3</td>
<td><strong>Total Hours 12</strong></td>
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<tr>
<td><strong>Total Hours 9</strong></td>
<td><strong>Total Hours 12</strong></td>
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<table>
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<tr>
<th><strong>Additional Degree Requirements</strong></th>
<th><strong>Maximum credit hours to be transferred to Missouri S&amp;T degree requirements.</strong> 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select additional courses to total up to the maximum transfer credit hours shown below.</td>
<td>Missouri S&amp;T residency requirements: The last 60 hours of any Missouri S&amp;T degree must be completed at Missouri S&amp;T. Students must receive special permission from Missouri S&amp;T to apply more than the maximum credit hours listed above toward the Missouri S&amp;T degree. Students are not required to complete all courses on this guide before transferring to Missouri S&amp;T.</td>
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<tbody>
<tr>
<td>CHEM 221 Organic Chemistry I 5</td>
<td>CHEM 2210, 2219 Organic Chemistry I and Lab 4</td>
</tr>
<tr>
<td>CHEM 222 Organic Chemistry II 5</td>
<td>CHEM 2220, 2229 Organic Chemistry II and Lab 4</td>
</tr>
<tr>
<td>MATH 210 Analytic Geometry &amp; Calculus III 4</td>
<td>MATH 2222 Calculus III 4</td>
</tr>
<tr>
<td>PHYS 220 Engineering Physics I 5</td>
<td>PHYSICS 1135 Engineering Physics I 4</td>
</tr>
<tr>
<td>PHYS 221 Engineering Physics II 5</td>
<td>PHYSICS 2135 Engineering Physics II 4</td>
</tr>
<tr>
<td>ENGR 215 Engineering Stats 3</td>
<td>STAT 3115 Engineering Statistics (Will be substituted for STAT 3113.) 3</td>
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</tbody>
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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.