St. Charles Community College — Missouri S&T
Chemistry BA with Secondary Education Teacher Certification Transfer Guide
Effective as of Fall 2020

<table>
<thead>
<tr>
<th>St. Charles Community College</th>
<th>Missouri S&amp;T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication Skills (Take all courses)</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>ENGLISH 1120 Exposition and Argumentation</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>ENGLISH 1160 Writing and Research</td>
</tr>
<tr>
<td>COM 106 Public Speaking</td>
<td>SPMS 1185 Principles of Speech</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 9</td>
<td><strong>Total Hours</strong> 9</td>
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<tr>
<td><strong>Social Sciences (Take all courses)</strong></td>
<td></td>
</tr>
<tr>
<td>HIS 101 or US History to 1877 or</td>
<td>HISTORY 1300 or American History to 1877 or</td>
</tr>
<tr>
<td>HIS 102 US History Since 1877</td>
<td>HISTORY 1310 American History since 1877</td>
</tr>
<tr>
<td>POL 101 American Government</td>
<td>POL SCI 1200 American Government</td>
</tr>
<tr>
<td>PSY 101 Intro to Psychology</td>
<td>PSYCH 1101 General Psychology</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 9</td>
<td><strong>Total Hours</strong> 9</td>
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<tr>
<td><strong>Humanities (Take all courses)</strong></td>
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</tr>
<tr>
<td>ART 1001 or Art Appreciation or</td>
<td>ART 1180 or Art Appreciation or</td>
</tr>
<tr>
<td>MUS 111 or Music Appreciation or</td>
<td>MUSIC 1150 or Music Appreciation or</td>
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<tr>
<td>THE 122 Intro of Theatre</td>
<td>THEATRE 1190 Theatre via Video</td>
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<tr>
<td>PHL 101 Intro to Philosophy</td>
<td>PHILOS 1105 Intro to Philosophy</td>
</tr>
<tr>
<td>LIT 210 or American Literature From 1865 or</td>
<td>ENGLISH 1221 or American Literature: 1865 to Present or</td>
</tr>
<tr>
<td>LIT 220 American Literature From 1865 - Present</td>
<td><strong>Total Hours</strong> 9</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 9</td>
<td><strong>Total Hours</strong> 9</td>
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<tr>
<td><strong>Mathematics and Sciences (Take all courses)</strong></td>
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</tr>
<tr>
<td>MAT 180 Calculus and Analytic Geometry I</td>
<td>MATH 1214 Calculus for Engineers I</td>
</tr>
<tr>
<td>MAT 230 Calculus and Analytic Geometry II</td>
<td>MATH 1215 Calculus for Engineers II</td>
</tr>
<tr>
<td>CHM 115 General Chemistry I</td>
<td>CHEM 1310, 1319 General Chemistry I and Lab</td>
</tr>
<tr>
<td>CHM 116 General Chemistry II</td>
<td>CHEM 1320, 1510 General Chemistry II and Qualitative Analysis</td>
</tr>
<tr>
<td>BIO 105 Essentials of Biology</td>
<td>BIO SCI 1113 General Biology</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 23</td>
<td><strong>Total Hours</strong> 21</td>
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<tr>
<td><strong>Additional Degree Requirements (Select up to 16 hours)</strong></td>
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</tr>
<tr>
<td>PHY 250 Engineering Physics I</td>
<td>PHYSICS 1135 Engineering Physics I</td>
</tr>
<tr>
<td>PHY 251 Engineering Physics II</td>
<td>PHYSICS 2135 Engineering Physics II</td>
</tr>
<tr>
<td>MAT 215 Probability Theory</td>
<td>STAT 3115 Engineering Statistics</td>
</tr>
<tr>
<td>CHEM 240 Organic Chemistry I</td>
<td>CHEM 2210 Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 241 Organic Chemistry II</td>
<td>CHEM 2220 Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 243 Organic Chemistry Lab</td>
<td>CHEM 2219,2229 Organic Chemistry I and II Labs</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 16</td>
<td><strong>Total Hours</strong> 16</td>
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<tr>
<td><strong>Teacher Certification Requirements (Take all courses)</strong></td>
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</tr>
<tr>
<td>EDU 211 Foundations of Education</td>
<td>EDUC 1040 Perspectives in Education</td>
</tr>
<tr>
<td>EDU 240 Educational Psychology</td>
<td>PSYCH 2300 Educational Psychology</td>
</tr>
<tr>
<td>PSY 110 Human Growth and Development</td>
<td>(EDUC 2102) Developmental Psychology</td>
</tr>
<tr>
<td>EDU 250 Education of Exceptional Learners</td>
<td>PSYCH 4310 Psychology of the Exceptional Child</td>
</tr>
<tr>
<td><strong>Total Hours</strong> 12</td>
<td><strong>Total Hours</strong> 11</td>
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</tbody>
</table>

*Teacher certification notes: An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BA in Chemistry.

Maximum credit hours to be transferred to Missouri S&T degree requirements.

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T. Students must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree. Students are not required to complete all courses on this guide before transferring to Missouri S&T.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2020. Further information or updates are available from Missouri S&T Transfer Admissions at transfer@mst.edu, transfer@mst.edu, or 800-522-0938.