# Missouri S&T — Jefferson College

## Applied Mathematics BS Transfer Guide

**Effective Fall 2014**

The following course work will apply to Missouri S&T degree requirements as outlined below. Students are not required to complete all course work before transferring to Missouri S&T.

<table>
<thead>
<tr>
<th>JC #</th>
<th>Title</th>
<th>Hours</th>
<th>S&amp;T #</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Communication Skills (Take all courses)</strong></td>
<td></td>
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<tr>
<td>ENG 101</td>
<td>English Composition I</td>
<td>3</td>
<td>ENGLISH 1120</td>
<td>Exposition and Argumentation</td>
<td>3</td>
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<tr>
<td>ENG 102</td>
<td>Composition and Rhetoric II</td>
<td>3</td>
<td>ENGLISH 1160</td>
<td>Writing and Research</td>
<td>3</td>
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<tr>
<td>SPD 175</td>
<td>Public Speaking (required for AA degree)</td>
<td>3</td>
<td>SPMS 1185</td>
<td>Principles of Speech (Will apply to B.S. degree as free elective)</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>6</td>
<td></td>
<td><strong>Total Hours</strong></td>
<td>9</td>
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| **Mathematics and Science (Take all courses)** | | | | | |
| MTH 180 | Calculus I | 5 | MATH 1208 | Calculus with Analytic Geometry I | 5 |
| MTH 185 | Calculus II | 5 | MATH 1221 | Calculus with Analytic Geometry II | 5 |
| MTH 201 | Calculus III | 5 | MATH 2222 | Calculus with Analytic Geometry III | 5 |
| PHY 123 | General Physics I | 4 | PHYSICS 1111, 1119 | General Physics I and Lab | 5 |
| PHY 124 | General Physics II | 4 | PHYSICS 2111, 2119 | General Physics II and Lab | 5 |
| **Total Hours** | 23 | | **Total Hours** | 24 | |

| **Social Sciences (Take all courses)** | | | | | |
| HIST 102 or HIST 103 or HIST 104 or PSC 102 | Renaissance to Early Modern Europe or US History I or US History II or US and Missouri Govt. and Constitution (At least one of these courses is required to satisfy state requirement) | 3 | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement) | 3 |
| ECO 102 or ECO 101 | Microeconomics or Macroeconomics | 3 | ECON 1100 or ECON 1200 | Principles of Microeconomics or Principles of Macroeconomics | 3 |
| **See your advisor for course options** | | | | | |
| **Total Hours** | 9 | | **Total Hours** | 9 | |

| **Humanities (Take all courses)** | | | | | |
| **See your advisor for course options** | | | | | |
| **Total Hours** | 9 | | **Total Hours** | 9 | |

| **Additional Degree Requirements (Select up to 17 hours)** | | | | | |
| MTH 205 | Differential Equations | 3 | MATH 3304 | Elementary Differential Equations | 3 |
| MTH 172 | Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3 |
| CHM 111 or BIO 101 | General Chemistry I or General Biology | 5 | CHEM 1310, 1319 or BIO SCI 1113, 1219 | General Chemistry I and Lab or General Biology and Lab | 5 |
| CIS 155 or CIS 152 | Intro to Computer Programming or Fortran Programming | 3 | CS 1570, 1580 or CS 1970, 1980 | Intro to Programming or Basic Scientific Programming and Lab | 3 |
| **Total Hours** | 17 | | **Total Hours** | 17 | |

**Maximum credit hours to be transferred to Missouri S&T degree requirements.** 72

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.