## Applied Mathematics BS Transfer Guide

### Effective as of Fall 2023

<table>
<thead>
<tr>
<th>Jefferson College</th>
<th>Missouri S&amp;T</th>
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<tbody>
<tr>
<td><strong>English and Communication Skills (Take all courses)</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>ENGLISH 1120 Exposition and Argumentation 3</td>
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<tr>
<td>ENG 102 Composition and Rhetoric II</td>
<td>ENGLISH 1160 Writing and Research 3</td>
</tr>
<tr>
<td>COM 110 Public Speaking</td>
<td>SPMS 1185 Principles of Speech 3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>Total Hours</strong></td>
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<td>9</td>
<td>6</td>
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### Humanities (Select 9 hours to include at least one literature.)

**ENGLISH 130 or**
- English Life and Literature I or
- American Literature I or
- World Literature before 1650 or other literature
  - At least one literature course is required.

**PSY 101**
- General Psychology or other psychology

**PHL 102**
- Intro to Philosophy or other philosophy

**ART 101**
- Art Appreciation or other art

**MUS 121**
- Appreciation of Music or other music

**SPD 120**
- Intro to Theatre or other theater

**Total Hours** 6

### Social Sciences (Take all courses)

**HIST 102 or**
- Renaissance to Early Modern Europe or

**HIST 103 or**
- US History I or

**HIST 104 or**
- US History II or

**PSC 102**
- US and Missouri Govt. and Constitution
  - (At least one of these courses is required to satisfy state requirement)

**ECO 102 or**
- Microeconomics or
  - Macroeconomics
  - At least one literature course is required.

**History 1200 or**
- Modern Western Civilization or

**HISTORY 1300 or**
- American History to 1877 or

**HISTORY 1310 or**
- American History Since 1877 or

**POL SCI 1200**
- American Government
  - (At least one of these courses is required to satisfy state requirement)

**ECN 1100 or**
- Principles of Microeconomics or

**ECN 1200**
- Principles of Macroeconomics
  - Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).

**Total Hours** 9

### Mathematics and Science (Take all courses)

**MTH 180**
- Calculus I

**MTH 185**
- Calculus II

**MTH 201**
- Calculus III

**MTH 205**
- Differential Equations

**MTH 172**
- Linear Algebra

**PHY 223**
- General Physics I

**PHY 224**
- General Physics II

**CIS 155**
- Intro to Computer Programming

**CHM 111 or**
- General Chemistry I or

**BIO 101**
- General Biology

**Total Hours** 37

### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

- Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.
- Maximum Free Electives

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

**60**

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 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.