

# Moberly Area Community College — Missouri S&T

## Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

### Moberly Area Community College

### Missouri S&T

#### Communication Skills

Take all courses.

|                       |                                      |   |                              |                                                 |   |
|-----------------------|--------------------------------------|---|------------------------------|-------------------------------------------------|---|
| LAL 101               | Composition I                        | 3 | ENGLISH 1120                 | Exposition and Argumentation                    | 3 |
| LAL 102 or<br>SPK 101 | Composition II or<br>Public Speaking | 3 | ENGLISH 1160 or<br>SPMS 1185 | Writing and Research or<br>Principles of Speech | 3 |
| Total Hours 6         |                                      |   | Total Hours 6                |                                                 |   |

#### Mathematics and Science

Take all courses.

|                                                   |                                                                                                    |   |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| MTH 201                                           | Analytic Geometry and Calculus I                                                                   | 5 | MATH 1214                                                                                | Calculus I                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 |
| MTH 202                                           | Analytic Geometry and Calculus II                                                                  | 5 | MATH 1215                                                                                | Calculus II                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 |
| MTH 203                                           | Analytic Geometry and Calculus III                                                                 | 5 | MATH 2222                                                                                | Calculus III                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 |
| PHY 201                                           | Engineering Physics I                                                                              | 5 | PHYSICS 1135                                                                             | Engineering Physics I                                                                                                                                                                                                                                                                                                                                                                                                                       | 4 |
| PHY 121 or<br>BIO 101 or<br>BIO 155 or<br>PHY 163 | General Chemistry I (5) or<br>Biology (4) or<br>General Biology for Majors I (4) or<br>Geology (4) | 4 | CHEM 1310, 1319* or<br>BIO SCI 1113, 1219* or<br>BIO SCI 1213*, 1219* or<br>GEOLOGY 1110 | General Chemistry I (4) and Lab* (1) or<br>General Biology* (3) and Lab* (1) or<br>Principles of Biology (3) and Lab*(3) or<br>Physical and Environmental Geology (3)<br>Satisfies the 3-hour science requirement. Credit hours apply to degree<br>totals as indicated for each course.<br>*BIO SCI 1213 will be substituted for 1113. CHEM 1319 and BIO SCI 1219<br>are not degree requirements, will transfer as general elective credit. | 3 |
| Total Hours 24                                    |                                                                                                    |   | Total Hours 19                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |

#### Social Sciences

Take all courses.

|                       |                                                           |   |                                 |                                                            |   |
|-----------------------|-----------------------------------------------------------|---|---------------------------------|------------------------------------------------------------|---|
| HST 105 or<br>HST 106 | American History to 1865 or<br>American History from 1865 | 3 | HISTORY 1300 or<br>HISTORY 1310 | American History to 1877 or<br>American History Since 1877 | 3 |
| PCS 105               | Intro to American Government                              | 3 | POL SCI 1200                    | American Government                                        | 3 |
| PSY 101               | General Psychology                                        | 3 | PSYCH 1101                      | General Psychology                                         | 3 |
| Total Hours 9         |                                                           |   | Total Hours 9                   |                                                            |   |

#### Humanities

Select one course.

|                                                                 |                                                                                                                                                                                                                                                                    |   |                                                                                          |                                                                                                                                                                                                                                              |   |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| ART 101 or<br>ART 102                                           | Art Survey and Appreciation I or<br>Art Survey and Appreciation II                                                                                                                                                                                                 | 3 | ART 1180                                                                                 | Art Appreciation                                                                                                                                                                                                                             | 3 |
| MUS 101 or<br>MUS 102                                           | Fundamentals of Music or<br>Music Appreciation                                                                                                                                                                                                                     | 3 | MUSIC 1150                                                                               | Music Appreciation                                                                                                                                                                                                                           | 3 |
| DRM 120                                                         | Theatre Appreciation                                                                                                                                                                                                                                               | 3 | THEATRE 1190                                                                             | Theatre via Video                                                                                                                                                                                                                            | 3 |
| LAL 150 or<br>LAL 151 or<br>LAL 120 or<br>LAL 121 or<br>LAL 210 | English Literature Survey to 1750 or<br>English Literature Survey from 1750 to Present or<br>American Literature Survey to 1870 or<br>American Literature Survey from 1870 to Present or<br>A Survey of World Literature I<br>or other non-prerequisite literature | 3 | ENGLISH 1211 or<br>ENGLISH 1212 or<br>ENGLISH 1221 or<br>ENGLISH 1222 or<br>ENGLISH 1231 | British Literature I: The Beginnings to 1800 or<br>British Literature II 1800 to Present or<br>American Literature: 1600 to 1865 or<br>American Literature: 1865 to Present or<br>World Literature I<br>or other non-prerequisite literature | 3 |
| Total Hours 3                                                   |                                                                                                                                                                                                                                                                    |   | Total Hours 3                                                                            |                                                                                                                                                                                                                                              |   |

#### Additional Degree Requirements

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

|                                     |                                                                                                                   |   |           |                                   |   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|---|-----------|-----------------------------------|---|
| MTH 250                             | Differential Equations                                                                                            | 3 | MATH 3304 | Elementary Differential Equations | 3 |
| ITC 125 or<br>ITC 243 or<br>ITC 244 | Object Oriented Programming I or<br>Object Oriented Programming II: Java or<br>Object Oriented Programming II: C# | 3 | CS 1500   | Computational Problem Solving     | 3 |

#### Teacher Certification Requirements

Take all courses.

|                |                                               |   |                            |                                                                              |   |
|----------------|-----------------------------------------------|---|----------------------------|------------------------------------------------------------------------------|---|
| EDU 220        | Foundations of Education in a Diverse Society | 3 | EDUC 1074                  | Education in a Diverse Society                                               | 3 |
| EDU 225        | Teaching Profession with Field Experience     | 3 | EDUC 1104                  | Teacher Field Experience I                                                   | 1 |
| EDU 245        | Educational Psychology                        | 3 | EDUC 2102 or<br>PSYCH 2300 | Educational Psychology                                                       | 3 |
| PSY 205        | Human Lifespan Development                    | 3 | PSYCH 3310                 | Developmental Psychology                                                     | 3 |
| EDU 242        | Educational of Exceptional Learners           | 3 | EDUC 2310 or<br>PSYCH 4310 | Education of the Exceptional Child or<br>Psychology of the Exceptional Child | 3 |
| Total Hours 15 |                                               |   | Total Hours 13             |                                                                              |   |

#### Professional Requirements for Teacher Education Program:

Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

#### 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 2026.  
Further information or updates are available from Missouri S&T Transfer Admissions at [transfer@mst.edu](mailto:transfer@mst.edu), [transfer@mst.edu](mailto:transfer@mst.edu), or 800-522-0938.