

Jefferson College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Jefferson College

Missouri S&T

Communication Skills

Take all courses.

| | | | | | |
|--------------------|--|-------------|---------------------------|--|---|
| ENG 101 | English Composition I | 3 | ENGLISH 1120 | Exposition and Argumentation | 3 |
| ENG 102 or COM 110 | Composition and Rhetoric II or Public Speaking | 3 | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | 3 |
| | | Total Hours | 6 | | |
| | | | | Total Hours | 6 |

Mathematics and Science

Take all courses.

| | | | | | |
|--|--|-------------|---|---|----|
| MTH 180 | Calculus I | 5 | MATH 1214 | Calculus I | 4 |
| MTH 185 | Calculus II | 5 | MATH 1215 | Calculus II | 4 |
| MTH 201 | Calculus III | 5 | MATH 2222 | Calculus III | 4 |
| PHY 223 | General Physics I | 5 | PHYSICS 1135 | Engineering Physics I | 4 |
| CHM 111 or BIO 101 or BIO 103 or PHY 105 | General Chemistry I (5) or General Biology (5) or Biology for Majors I (4) or Physical Geology (5) | 4 | CHEM 1310, 1319* or BIO SCI 1113, 1219* or BIO SCI 1213*, 1219* or GEOLOGY 1110 | General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) Principles of Biology (3) and Lab*(3) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course. *BIO SCI 1213 will be substituted for 1113. CHEM 1319 and BIO SCI 1219 are not degree requirements, will transfer as general elective credit. | 3 |
| | | Total Hours | 24 | | |
| | | | | Total Hours | 19 |

Social Sciences

Take all courses.

| | | | | | |
|--------------------|---|-------------|------------------------------|---|---|
| HST 103 or HST 104 | US History I to Reconstruction or US History II from Reconstruction | 3 | HISTORY 1300 or HISTORY 1310 | American History to 1877 or American History Since 1877 | 3 |
| PSC 102 | US and Missouri Govt. and Constitution | 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 | Art Appreciation | 3 | ART 1180 | Art Appreciation | 3 |
| MUS 121 | Appreciation of Music | 3 | MUSIC 1150 | Music Appreciation | 3 |
| THT 100 | Theatre Appreciation | 3 | THEATRE 1190 | Theatre via Video | 3 |
| ENG 130 or ENG 175 or ENG 215 | English Life and Literature I or American Literature I or World Literature before 1650 or other non-prerequisite literature | 3 | ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 r | British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I 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 205 | Differential Equations | 3 | MATH 3304 | Elementary Differential Equations | 3 |
| MTH 172 | Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3 |
| CS 155 | Intro to Computer Programming | 3 | CS 1500 | Computational Problem Solving | 3 |

Teacher Certification Requirements

Take all courses.

| | | | | | |
|---------|---|-------------|-------------------------|--------------------------------|---|
| EDU 210 | Foundations of Education | 3 | EDUC 1074 | Education in a Diverse Society | 2 |
| EDU 230 | Teaching Profession with Field Experience | 3 | EDUC 1104 | Teacher Field Experience I | 1 |
| EDU 225 | Educational Psychology | 3 | EDUC 2102 or PSYCH 2300 | Educational Psychology | 3 |
| PSY 201 | Child Psychology | 3 | PSYCH 3310 | Developmental Psychology | 3 |
| | | Total Hours | 12 | | |
| | | | | Total Hours | 9 |

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.