St. Louis Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

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St. Louis Community College **Missouri S&T Communication Skills** Take all courses. Exposition and Argumentation ENG 101 College Composition I ENGLISH 1120 3 ENG 102 or College Composition II or ENGLISH 1160 or Writing and Research or 3 COM 107 Public Speaking SPMS 1185 Principls of Speech **Total Hours** 6 **Total Hours Mathematics and Science** Take all courses. MTH 210 Analytic Geometry and Calculus I 5 **MATH 1214** Calculus I MTH 220 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II MTH 230 Analytic Geometry and Calculus III 5 MATH 2222 Calculus III PHY 122 **Engineering Physics I** 5 PHYSICS 1135 Engineering Physics I General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) CHM 105 or General Chemistry I (5) or CHEM 1310 1319* or Principles of Biology (3) and Lab*(3) or Intro to Biology I (4) or Physical and Environmental Geology (3) BIO 111 or BIO SCI 1113, 1219* or 4 BIO 140 or Principles of Biology I (5) or BIO SCI 1213*, 1219* or Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course. GEO 111 Physical Geology (5) GEOLOGY 1110 *BIO SCI 1213 will be substituted for 1113. CHEM 1319 and BIO SCI 1219 are not degree requirements, will transfer as general elective credit **Total Hours** 24 **Total Hours Social Sciences** Take all courses. HISTORY 1300 or HST 101 or US History to 1865 or American History to 1877 or 3 HST 102 US History 1865 to Present **HISTORY 1310** American History Since 1877 PSC 101 Intro to American Politics 3 POL SCI 1200 American Government PSY 200 General Psychology **PSYCH 1101** General Psychology 3 Total Hours 9 **Total Hours Humanities** Select one course. ART 100 Art Appreciation ART 1180 Art Appreciation 3 **MUSIC 1150** Music Appreciation MUS 114 **Music Appreciation** 3 THT 101 Intro to Theatre 3 THEATRE 1190 Theatre via Video British Literature II or ENG 211 or British Literature I: The Beginnings to 1800 or ENGLISH 1211 or ENG 204 or American Literature I or 3 ENGLISH 1221 or American Literature: 1600 to 1865 or ENG 231 World Literatureor other non-prerequisite literature ENGLISH 1231 World Literature I or other non-prerequisite literature Total Hours 3 Total Hours Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below. MTH 240 **Differential Equations** 3 MATH 3304 Elementary Differential Equations MATH 3108 Linear Algebra MTH 215 Linear Algebra З IS 187 or Java Programming I (4) or CS 1500 Computational Problem Solving 3-4 IS 280 Python (3) **Teacher Certification Requirements** Take all courses. EDU 211 Foundations of Education in a Diverse Society 3 EDUC 1074 Education in a Diverse Society EDU 210 Teaching Profession with Field Experience 3 **FDUC 1104** Teacher Field Experience I EDUC 2102 or EDU 227 Educational Psychology 3 Educational Psychology **PSYCH 2300** PSY 205 Developmental Psychology Human Growth and Development 3 **PSYCH 3310** EDUC 2310 or Education of the Exceptional Child or EDU 219 Education of Exceptional Learners 3 **PSYCH 4310** Psychology of the Exceptional Child **Total Hours** 15 Total Hours 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. 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 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938