Moberly Area Community College — Missouri S&T

Applied Mathematics BS

Transfer Guide Effective as of Fall 2024

Moberly Area Community College Missouri S&T **English and Communication Skills** Take all courses LAL 101 Composition I 3 ENGLISH 1120 Exposition and Argumentation 3 Composition II I AL 102 3 ENGLISH 1160 Writing and Research 3 SPK 101 Public Speaking 3 SPMS 1185 Principles of Speech 3 **Total Hours** 9 Total Hours 9 **Humanities** Select 9 hours to include at least one literature. LAL 150 or English Literature Survey to 1750 or ENGLISH 1211 or British Literature I: The Beginnings to 1800 or LAL 120 or American Literature Survey to 1870 or ENGLISH 1221 or American Literature: 1600 to 1865 or A Survey of World Literature I or ENGLISH 1231 or LAL 210 or World Literature Lor 3 3 I Al 255 or Women's Literature or ENGLISH 2242 or Literature by Women or LAL 125 African-American Literature or other literature ENGLISH 2245 African American Literature or other literature At least one literature course is required PSY 101 General Psychology 3 **PSYCH 1101** General Psychology 3 PHI 150 Intro to Philosophy 3 PHILOS 1105 Self and World: Intro to Philosophy 3 ART 101 or Art Survey and Appreciation I or 3 **ART 118** Art Appreciation 3 MUS 101 or Fundamentals of Music or 3 MUS 1150 Music Understanding and Appreciation 3 MUS 102 Music Appreciation DRM 120 Theatre Appreciation 3 THEATRE 1190 Theatre via Video 3 Foreign Language Any foreign language 3 Foreign Language Any foreign language 3 Any fine art, English, music, theatre, philosophy or Any fine art, English, music, theatre, philosophy or Humanities 3 Humanities 3 speech speech Social Science Any history, political sicence, or psychology. 3 Social Science Any history, political sicence, or psychology 3 **Total Hours** 9 Total Hours 9 Social Sciences Take all courses. HISTORY 1200 or HST 102 or Western Civilization II or Modern Western Civilization or HST 105 or American History to 1865 or HISTORY 1300 or American History to 1877 or 3 3 HST 106 or American History fromn 1865 or HISTORY 1310 or American History Since 1877 or PSC 105 Intro to American Government POL SCI 1200 American Government At least one of these courses is required to satisfy state requirement. At least one of these courses is required to satisfy state requirement. ECN 102* or ECON 1100* or Principles of Microeconomics* or Microeconomics or ECN 101* **FCON 1200*** Principles of Macroeconomics* Macroeconomics 3 3 *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences). *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 Total Hours 6 6 Mathematics, Statistics, and Computer 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 MTH 250 **Differential Equations** 3 MATH 3304 **Elementary Differential Equations** 3 ITC 125 or Object-Oriented Programming I or ITC 243 or Object-Oriented Programming II: Java or 3 CS 1500 Computational Problem Solving ITC 244 or Object-Oriented Programming II: C# or Python Programming ITC 247 Total Hours Total Hours 18 18 Science Select PHYSICS 1135 and 2 additional courses from the options below. A total of 13 hours will apply to this requirement PHY 201 PHYSICS 1135 Engineering Physics I required Engineering Physics I 5 4 Engineering Physics II Engineering Physics II PHY 202 5 PHYSICS 2135 4 5 5 PHY 121 General Chemistry I CHEM 1310, 1319 General Chemistry I and Lab General Chemistry II (3) and Qualitative Analysis (2) 3 PHY 122 General Chemistry II CHEM 1320, 1510* 5 CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit. BIO 101 or BIO SCI 1113, 1219 or Biology or General Biology and Lab or 4 4 BIO 155 General Biology for Majors I BIO SCI 1213, 1219 Pringiples of Biology and Lab Total Hours 13 Total Hours 13 Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below. Technical electives in biology, chemistry, computer Technical electives in biology, chemistry, computer Technical Electives Technical Electives science, economics, engineering, geology, mechanics, 3 science, economics, engineering, geology, mechanics, 3 or physics approved by advisor. or physics approved by advisor. Maximum Free Electives 14 Electives Maximum Free Electives 14 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 2024. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.