Metropolitan Community College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

Metropolitan Community College			Missouri S&T		
English and Communication Skills (Take all courses)					
ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or ENGL 215	Composition and Reading II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COMM 100	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
	Total Hours	6		Total Hours	6
Humanities (Select 9 hours to include at least one literature.)					
ENGL 220 or ENGL 221 or ENGL 222 or ENGL 223 or ENGL 254 or ENGL 268 or ENGL 260	British Literature to 1750 or British Literature 1750 to Present or American Literature I or American Literature II or World Literature I or Women's Literature or African-American Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I or British Literature II or American Literature 1600 to 1865 or American Literature 1865 to Present or World Literature I or Literature by Women or African American Literature or other literature At least one literature course is required.	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology or other psychology	3
PHIL 100	Introduction to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ART 108	Survey of Art or other art	3	ART 118	Art Appreciation or other art	3
MUSI 108	Music Appreciation or other music	3	MUS 1150	Music Understanding and Appreciation or other music	3
SPDR 106	Theatre Appreciation or other theatre		THEATRE 1190	Theatre via Video or other theatre	3
	Any foreign lanuage	3		Any foreign language	3
	Any fine art, English, music, philosophy or speech.	3		Any fine art, English, music, philosophy or speech.	3
	Any history, political science, or psychology	3		Any history, political sicence, or psychology.	3
	Total Hours	9		Total Hours	9
Social Sciences (Take all courses)					
HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
ECON 211* or ECON 210*	Microeconomics or Macroeconomics *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	3	ECON 1100* or ECON 1200*	Principles of Microeconomics* or 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).	3
	Total Hours	6		Total Hours	6
Mathematics and Science (Take all courses)					
MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus III	4
MATH 230* or ENGR 215*	Differential Equations* or Engineering Statsitics and Computation* *Select 1 or 2 of these courses	3	MATH 3304	Elementary Differential Equations	3
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CSIS 271 or CSIS 123 or CSIS 223	Data Structures and Algorithm Analysis or Programming Fundamentals or Object-Oriented Programming with C++	3	CS 1500	Computational Problem Solving	3
CHEM 111 or BIOL 101	General College Chemistry I or General Biology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	4-5
	Total Hours	38		Total Hours	34
Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below.					
	See your advisor for course options			Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3
	See your advisor for course options			Maximum Free Electives	14

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.