Moberly Area Community College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

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
LAL 102 or IND 120	Composition II or Technical Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	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 LAL 120 or LAL 210 or LAL 255 or LAL 125	English Literature Survey to 1750 or American Literature Survey to 1870 or A Survey of 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
PSY 101	General Psychology	3	PSYCH 1101	General Psychology or other psychology	3
PHI 150	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ART 101 or ART 102	Art Survey and Appreciation I or Art Survey and Appreciation I	3	ART 118	Art Appreciation or other art	3
MUS 101 or MUS 102	Fundamentals of Music or Music Appreciation	3	MUS 1150	Music Understanding and Appreciation or other music	3
DRM 120	Theatre Appreciation	3	THEATRE 1190	Theatre via Video or other theater	3
	Any foreign language			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 sicence, or psychology.	3		Any history, political sicence, or psychology.	3
	Total Hours	9		Total Hours	9
Social Sciences (Take all courses)					
HST 102 or HST 105 or HST 106 or PSC 105	Western Civilization II or American History to 1865 or American History fromn 1865 or Intro to American Government (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
ECN 102* or ECN 101*	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)					
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
PHY 201	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 202	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
ITC 125 or ITC 243 or ITC 244 or ITC 247	Object-Oriented Programming I or Object-Oriented Programming II: Java or Object-Oriented Programming II: C# or Python Programming	3	CS 1500	Computational Problem Solving	3
PHY 121 or BIO 101	General Chemistry I or Biology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	4
	Total Hours	36		Total Hours	30
Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below.					
	Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3		Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3
	Maximum Free Electives	14		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.