## East Central College — Missouri S&T Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

	East Central College			Missouri S&T	
		nmuni	cation Skills (Take a	II courses)	
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or	English Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENG 104	Technical Writing	3	ENGLISH 3560	Technical Writing	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
	(0.1		umanities		
ENC 240 or		s to inc	ENGLISH 1211 or		
ENG 210 or ENG 221 or	Survey British Lit: Beginnings to 1784 or Survey American Lit: Colonial to 1865 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or	
ENG 124 or	World Literature I or		ENGLISH 1231 or	World Literature I or	
ENG 214 or	Women's Literature or	3	ENGLISH 2242 or	Literature by Women or	3
ENG 215	African-American Literature		ENGLISH 2245 or	African American Literature	
	(or other literature elective)			(or other literature elective)	
PSY 101	General Psychology	3	PSYCH 1101	General Psychology or other psychology	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ART 101	Art Appreciation	3	ART 118	Art Appreciation or other art	3
MUS 101	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation or other music	3
THE 101	Theatre Aappreciation	3	THEATRE 1190	Theatre via Video or other theater	3
	Any foreign language	3		Any foreign language	3
	Any fine art, English, music, philosophy or	3		Any fine art, English, music, philosophy or speech.	3
	speech.  Any history, political sicence, or psychology.			Any history, political sicence, or psychology.	
	,,	3		,,,, ps	3
	Total Hours	9		Total Hours	9
		Scienc	es (Take all courses		
HST 101 or	US History to 1877 or		HISTORY 1200 or	Modern Western Civilization or	
HST 102 or CIV 202 or	US History Since 1877 or European Civilization II or		HISTORY 1300 or HISTORY 1310 or	American History to 1877 or American History Since 1877 or	
PSC 102	US Government I: National and State	3	POL SCI 1200	American Government	3
100 102	(At least one of these courses is required to satisfy state		1 02 001 1200	(At least one of these courses is required to satisfy state requirement)	
	requirement)		ECON 1100* or	Principles of Microscopomics* or	
ECO 102 or	Principles of Microscopomics or		ECON 1100 of ECON 1200*	Principles of Microeconomics* or Principles of Macroeconomics*	
ECO 102 01	Principles of Microeconomics or Principles of Macroeconomics	3	20011 1200	*Students pursuing the Actuarial Science emphasis take BOTH ECON	3
200 101	1 morphod of macrodochomico			1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	
	Total Hours	6		Total Hours	6
	Mathematic	s and S	Science (Take all co	urses)	
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MTH 220	Analytical Geometry & Calculus III	5	MATH 2222	Calculus III	4
MTH 245	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 241	Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
PHY 211, 212	General Physics I and Lab	5 5	PHYSICS 1135	Engineering Physics I	4
PHY 221, 222 EGR 221,222 or	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	4
EGR 251	C++ Program Engineers and Lab (4) or Data Structures (3)	3	CS 1500	Computational Problem Solving	3
CHM 111 or	General Chemistry I and Lab or	_	CHEM 1310, 1319 or	General Chemistry I and Lab or	4
BIO 111	General Biology I and Lab	5	BIO SCI 1113, 1219	General Biology and Lab	4
	Total Hours	42		Total Hours	36
			egree Requirements		
	Select additional courses to total t	up to ti	ne maximum transfe	r credit hours shown below.	
	Technical electives in biology, chemistry,			Technical electives in biology, chemistry, computer	
	computer science, economics, engineering,	3		science, economics, engineering, geology,	3
	geology, mechanics, or physics approved by advisor.			mechanics, or physics approved by advisor.	
	Maximum Free Electives	14		Maximum Free Electives	14
	MAXIMUTT TOO ELOCUTOO				
	Maximum credit hours to be tran	sferre	d to Missouri S&T de	egree requirements.	60
	Missouri S&T residency requirements: The last				
	Students must receive special permission from Missouri S&T Students are not required to comp			· · · · · · · · · · · · · · · · · · ·	
	Gladents are not required to comp	icie ali co	raises on this guide before trai	isioning to Missouli Oct.	

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.