East Central College — Missouri S&T

Applied Mathematics BS
Transfer Guide Effective as of Fall 2024

	East Central College			Missouri S&T	
	English a		mmunication Skills		
ENG 101	English Composition I	3	Il courses. ENGLISH 1120	Exposition and Argumentation	3
ENG 101 ENG 102 or	English Composition II or	-	ENGLISH 1160 or	Writing and Research or	
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
	Select 9 hours		anities Ide at least one literature.		
ENG 210 or	Survey British Lit: Beginnings to 1784 or	to mora	ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 221 or	Survey American Lit: Colonial to 1865 or		ENGLISH 1221 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 or other literature		ENGLISH 2245 or	African American Literature or other literature	
	or other literature At least one literature course is required.			or other literature At least one literature course is required.	
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ART 101	Art Appreciation	3	ART 118	Art Appreciation	3
MUS 101	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
THE 101	Theatre Aappreciation	3	THEATRE 1190	Theatre via Video	3
Foreign Language	Any foreign language	3	Foreign Language	Any fine art. English music theatre, philosophy or	3
Humanities	Any fine art, English, music, philosophy or speech.	3	Humanities	Any fine art, English, music, theatre, philosophy or speech.	3
Social Science	Any history, political sicence, or psychology.	3	Social Science	Any history, political sicence, or psychology.	3
	Total Hours	9		Total Hours	9
			Sciences Il courses.		
CIV 202 or	European Civilization II or	lake a	HISTORY 1200 or	Modern Western Civilization or	
HST 101 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HST 102 or	US History Since 1877or	3	HISTORY 1310 or	American History Since 1877 or	3
PSC 102	US Government I: National and State	C	POL SCI 1200	American Government	·
	At least one of these courses is required to satisfy a State of Missouri requirement.			At least one of these courses is required to satisfy state requirement.	
ECO 102* or	Principles of Microeconomics* or		ECON 1100* or	Principles of Microeconomics* or	
ECO 101*	Principles of Macroeconomics*	•	ECON 1200*	Principles of Macroeconomics*	2
	*Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	3		*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
			s and Science		
	· · · · · · · · · · · · · · · · · · ·		l courses.		
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	PHYSICS 1135	Engineering Physics I	4
PHY 221, 222	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	4
EGR 221,222 or	C++ Program Engineers and Lab (4) or	3	CS 1500	Computational Problem Solving	3
EGR 251	Data Structures (3)		CHEM 1310, 1319 or	,	
CHM 111 or	General Chemistry I and Lab or	_	BIO SCI 1113, 1219	General Chemistry I and Lab (5) or General Biology and Lab (4)	-
BIO 111	General Biology I and Lab	5	DIO 001 1110, 1210	Satisfies the 5-hour science requirement. Credit hours apply to degree	5
	Total Hours	42		totals as indicated for each course. Total Hours	37
			ree Requirements	I Ulai i iours	31
	Select additional courses to total u			hours shown below.	
	Technical electives in biology, chemistry, computer			Technical electives in biology, chemistry, computer	
Technical Electives	science, economics, engineering, geology,	3	Technical Electives	science, economics, engineering, geology,	3
	mechanics, or physics approved by advisor.	Ü	10011110011210011700	mechanics, or physics approved by advisor.	Ū
Electives	Maximum Free Electives	14	Electives	Maximum Free Electives	14
Liectives	Waxiiiuiii i lee Liectives	17	Liectives	Maximum Free Liectives	14
	Maximum credit hours to be transfe	erred to	o Missouri S&T deg	ree requirements.	60
	Missouri S&T residency requirements: The last 60) hours of	any Missouri S&T degree mus	st be completed at Missouri S&T.	
:	Students must receive special permission from Missouri S&T to a				
	Students are not required to complete	all course	es on this guide before transfer	ring to Missouri S&I.	

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.