East Central College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

	East Central College			Missouri S&T	
	Comn	nunicatior	n Skills (Take all co	ourses)	
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hour		Science (Take all	Total Hours	s 9
	wamen	ialics and	Science (Take all	courses)	
MTH 183	College Algebra	3	MATH 1140*	College Algebra* *Required for teacher certification; not a Mathematics BS requirement.	. 3
MTH 171	Trigonometry	2	MATH 1160*	Trigonometry* *Required for teacher certification; not a Mathematics BS requirement.	2
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
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
	Total Hour			Total Hours	s 25
	So	cial Scien	ces (Take all cours	ses)	
CIV 202 or	European Civilization II or	olai ooloii	HISTORY 1200 or	Modern Western Civilization or	
HST 101 or	US History to 1865 or	3	HISTORY 1300 or	American History to 1877 or	3
HST 102	US History 1865-1945		HISTORY 1310	American History Since 1877	
PSC 102	US Government I: National and State	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
200 101	Total Hou	s 12	LCON 1200	Total Hours	s 12
			es (Take all courses		,
ART 101 or	Art Appreciation or	Tumamic	ART 1180 or	Art Appreciation or	
MUS 101 or	Music Appreciation or		MUSIC 1150 or	Music Appreciation or	
THE 101 or	Theatre Appreciation or	3	THEATRE 1190 or	Theatre via Video or	3
PHL 101	Introduction to Philosophy		PHILOS 1105	Intro to Philosophy	
ENG 210 or	Survey British Lit: Beginnings to 1784 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 221 or ENG 124 or	Survey American Lit: Colonial to 1865 or World Literature I or		ENGLISH 1221 or ENGLISH 1231 or	American Literature: 1600 to 1865 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)	•
	Total Hour			Total Hours	s 6
			Degree Requireme		
				sfer credit hours shown below.	
MTH 245	Differential Equations			Elementary Differential Equations	3
MTH 241 CHEM 111 or	Linear Algebra General Chemistry I and Lab or	3	MATH 3108	Linear Algebra General Chemistry I and Lab or	3
BIO 111	General Biology I and Lab	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Biology and Lab	5
EGR 251 or	Data Structures or	2.4	CS 1500 or	Computational Problem Solving or	2
EGR 221, 222	C++ Program Engineers and Lab	3-4	CS 1971,1981	Intro to Programming Methodology and Lab	3
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
		or Teache	er Certification Opt	ion (Take all courses)	
EDU 201 or EDU 214	Foundations of Education or Multicultural Education	3	EDUC 1040	Perspectives in Education	2
EDU 241	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 4310	Developmental Psychology	3
EDU 244	Education of the Exceptional Learner Total Hour	3 rs 12	PSYCH 4310	Psychology of the Exceptional Child Total Hours	3 s 11
	Requirements for Teacher Education Program education.mst.edu/secondaryeducation/.		ew all program requirem		, 11
	Maximum credit hours to be	transferre	ed to Missouri S&T	degree requirements.	60
Stu	Missouri S&T residency requirements:	The last 60 ho	urs of any Missouri S&T de	gree must be completed at Missouri S&T. redit hours listed above toward the Missouri S&T degree.	

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.