Metropolitan Community College — Missouri S&T
Applied Math BS with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2023

<u> </u>	Metropolitan Community College			<u>Missouri S&amp;T</u>	
	Commu	nicatio	on Skills (Take all co	ourses)	
ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3	ENGLISH 1160	Writing and Research	3
COMM 100	Fundamentals of Speech  Total Hours	3 9	SPMS 1185	Principles of Speech  Total Hours	3 9
		_	d Science (Take all o		9
	College Algebra*	ics an	d Science (Take all C		
MATH 120*	*Required for teacher certification; not a Mathematics BS requirement.	3	MATH 1140*	College Algebra*  *Required for teacher certification; not a Mathematics BS requirement.	3
MATH 130*	Trigonometry*  *Required for teacher certification; not a Mathematics BS requirement.	3	MATH 1160*	Trigonometry* *Required for teacher certification; not a Mathematics BS requirement.	2
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
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
	Total Hours	30		Total Hours	25
		al Scie	ences (Take all cours		
HIST 134 or HIST 120 or HIST 121	Western Civilization II or United States History to 1865 or United States History since 1865	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History Since 1877	3
POLS 136 PSYC 140	Introduction to American Government General Psychology	3	POL SCI 1200 PSYCH 1101	American Government General Psychology	3
ECON 211 or	Microeconomics or			Principles of Microeconomics or	
ECON 210	Macroeconomics	3	1200	Principles of Macroeconomics	3
	Total Hours	12		Total Hours	12
	Hu	manit	ies (Take all courses	5)	
ART 108 or	Survey of Art or		ART 1180 or	Art Appreciation or	
MUSI 108 or SPDR 106 or PHIL 100	Music Appreciation or Theater Appreciation or Introduction to Philosophy	3	MUSIC 1150 or THEATRE 1190 or PHILOS 1105	Music Appreciation or Theatre via Video or Intro to Philosophy	3
ENGL 220 or ENGL 222 or ENGL 254 or ENGL 268 or ENGL 260	British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature (or other literature elective)	3
	Total Hours	6		Total Hours	6
	Add	itional	l Degree Requiremer	nts	
	Select additional courses to tota	l up to	the maximum trans	sfer credit hours shown below.	
MATH 230	Differential Equations	3	MATH 3304	Elementary Differential Equations	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	5
CSIS 271 or CSIS 123 or CSIS 223	Data Structures and Algorithm Analysis or Programming Fundamentals or Object-Oriented Programming with C++ or	3	CS 1500 or CS 1971,1981	Computational Problem Solving or Intro to Programming Methodology and Lab	3
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
	Additional Courses for	Teach	ner Certification Opti	ion (Take all courses)	
EDUC 100	Introduction to Education	2	EDUC 1040	Perspectives in Education	2
EDUC 270	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSYC 241	Human Development	4	PSYCH 3310	Developmental Psychology	3
EDUC 285	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child	3
	Total Hours  Requirements for Teacher Education Program: I reducation.mst.edu/secondaryeducation/.	12 Please	view all program requirem	Total Hours	11
	Maximum credit hours to be tra Missouri S&T residency requirements: The			•	60
S	students must receive special permission from Missouri S Students are not required to co	&T to ap	ply more than the maximum cre	edit hours listed above toward the Missouri S&T degree.	

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.