

State Fair Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

State Fair Community College

Missouri S&T

Communication Skills (Take all courses)

ENGL 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
COM 101	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			9		

Mathematics and Science (Take all courses)

MATH 114	Precalculus Algebra	3	MATH 1140*	College Algebra*	3
			*Required for teacher certification; not a Mathematics BS requirement.		
MATH 120	Precalculus Trigonometry	3	MATH 1160*	Trigonometry*	2
			*Required for teacher certification; not a Mathematics BS requirement.		
MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	4
MATH 132	Calculus and Analytic Geometry III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 119	General Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			25		
			Total Hours		
			20		

Social Sciences (Take all courses)

HIST 109 or HIST 101 or HIST 102	World Civilization after 1500 or US History Before 1877 or US History Since 1877	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History Since 1877	3
POLS 101	American/National Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECON 102 or ECON 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours			12		
			Total Hours		
			12		

Humanities (Take all courses)

ART 101 or MUS 101 or THEA 107 or PHIL 101	Art Appreciation or Music Appreciation or Intro to Theatre or Intro to Philosophy	3	ART 1180 or MUSIC 1150 or THEATRE 1190 or PHILOS 1105	Art Appreciation or Music Appreciation or Theatre via Video or Intro to Philosophy	3
LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature (or other literature elective)	3	ENGLISH 1231	World Literature I or American Literature Elective or British Literature Elective (or other literature elective)	3
Total Hours			6		
			Total Hours		
			6		

Additional Degree Requirements (Select up to 10 hours)

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
CHEM 123 or BIO 125	General Chemistry I with Lab or Biology I with Lab	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CIS 155	Programming in C#	3	CS 1500	Computational Problem Solving	3
Total Hours			10		
			Total Hours		
			10		

Additional Courses for Teacher Certification Option (Take all courses)

EDUC 209	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDUC 220	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
EDUC 228	Education of Exceptional Learners Pre K-12	3	PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			12		
			Total Hours		
			11		

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BS in Applied Mathematics.

Maximum credit hours to be transferred to Missouri S&T degree requirements.

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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.