

State Fair Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

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
SPTH 101	Public Speaking (Required for AA degree.)	3	SPMS 1185	Principles of Speech	3
Total Hours			9	Total Hours	
				9	

Mathematics and Science (Take all courses)

MATH 130	Calculus and Analytical Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	4
MATH 132	Calculus and Analytical 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 101 or HIST 102	US History Before 1877 or US History Since 1877	3	HISTORY 1300 or HISTORY 1310	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	ECON Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours			12	Total Hours	
				9	

Humanities (Take all courses)

ART 101 or MUS 101 or PHIL 101	Art Appreciation or Music Appreciation or Introduction to Philosophy <i>See your advisor for course options</i>	3	ART 1180 or MUSIC 1150 or PHILOS 1105	Art Appreciation or Music Appreciation or Introduction to Philosophy Literature Elective	3
Total Hours			6	Total Hours	
				6	

Additional Degree Requirements (Select up to 14 hours)

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 125	Biology I with Lab	5	BIO SCI 1113, 1219	General Biology and Lab	5
CIS 155	Programming in C+	3	CS 1570	Intro to Programming (C++)	3
Total Hours			14	Total Hours	
				14	

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 or EDUC 2102	Educational Psychology	3
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
Total Hours			9	Total Hours	
				8	

***Teacher certification notes:** Passing scores on MoGEA and MoCA are required. Students must maintain a minimum 2.75 cumulative GPA and a minimum 3.0 content GPA. Students completing this program will have a BA degree in Chemistry with secondary education teacher certification.

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.