

Johnson County Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

<u>Partner School</u>		<u>Missouri S&T</u>				
Communication Skills (Take all courses)						
ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3	
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3	
SPD 121	Public Speaking	3	SPMS 1185	Principles of Speech	3	
Total Hours			9	Total Hours		9
Mathematics and Science (Take all courses)						
MATH 241 & MATH 242	Calculus I and Calculus II	10	MATH 1214 & MATH 1215	Calculus for Engineers I and Calculus II for Engineers	8	
MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry 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			25	Total Hours		20
Social Sciences (Take all courses)						
HIST 140 or HIST 141	U.S. History to 1877 or U.S. History since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3	
POLS 122 or POLS 124	Political Science or American National Government	3	POL SCI 1200	American Government	3	
PSYC 130	Introduction to Psychology	3	PSYCH 1101	General Psychology	3	
ECON 231 or ECON 230	Economics II or Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
Total Hours			12	Total Hours		9
Humanities (Take all courses)						
MUS 121 or THEA 120 or PHIL 121	Introduction to Music Listening or Introduction to Theater or Introduction to Philosophy	3	MUSIC 1150 or THEATRE 1190 or PHILOS 1105	Music Appreciation or Theatre Appreciation or Introduction to Philosophy	3	
	<i>See your advisor for course options</i>	3		Literature Elective	3	
Total Hours			6	Total Hours		6
Additional Degree Requirements (Select up to 14 hours)						
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3	
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra	3	
BIOL 121	Introductory Biology for Non-Majors	4	BIO SCI 1113, 1219	General Biology and Lab	5	
CS 200 or CS 235	Concepts of Programming Algorithms/C++ or Object Oriented Programming/C++	4	CS 1971, 1981 or CS 1570, 1580	Intro to Programming Method and Lab (C++) or Intro to Programming and Lab (C++)	3 4	
Total Hours			14	Total Hours		14
Additional Courses for Teacher Certification Option (Take all courses)						
EDUC 121	Introduction to Teaching	3	EDUC 1040	Perspectives in Education	2	
PSYC 225	Educational Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3	
PSYC 215	Child 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.