

Crowder College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

Crowder College

Missouri S&T

Communication Skills (Take all courses)

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

Mathematics and Science (Take all courses)

MATH 150, 160	Calculus I Part I and II	5	MATH 1214	Calculus for Engineers I	4
MATH 201	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MATH 202	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 190	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 210	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
		Total Hours	25		
				Total Hours	20

Social Sciences (Take all courses)

HIST 106 or	US History or	3	HISTORY 1300 or	American History to 1877 or	3
HIST 107	US History II		HISTORY 1310	American History Since 1877	
PLSC 103	National, State, and Local Governments	3	POL SCI 1200	American Government	3
PSYC 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECON 202 or	Principles of Economics II (Micro) or	3	ECON 1100 or ECON	Principles of Microeconomics or	3
ECON 201	Principles of Economics I (Macro)		1200	Principles of Macroeconomics	
		Total Hours	12		
				Total Hours	9

Humanities (Take all courses)

ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or	
MUSC 101 or	Music History and Appreciation or Introduction	3	MUSIC 1150 or	Music Appreciation or	3
PHIL 101	to Philosophy		PHILOS 1105	Introduction to Philosophy	
	<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 210	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIOL 101	General Biology	5	BIO SCI 1113, 1219	General Biology and Lab	5
COMP 111 or	Intro to Computer Science		CS 1570, 1580 or	Intro to Programming or	
COMP 101	Intro to Computer Science	3	CS 1971, 1981	Intro to Programming Methodology and Lab	3
		Total Hours	14		
				Total Hours	14

Additional Courses for Teacher Certification Option (Take all courses)

EDUC 203	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDUC 230	Education Psychology	3	PSYCH 2300 or	Educational Psychology	3
			EDUC 2102		
		Total Hours	6		
				Total Hours	5

***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.