

Moberly Area Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

Partner School

Missouri S&T

Communication Skills (Take all courses)

LAL 101	English I	3	ENGLISH 1120	Exposition and Argumentation	3
LAL 102	Exposition	3	ENGLISH 1160	Writing and Research	3
SPK 101	Public Speaking (Required for AA degree)	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MTH 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 203	Analytic Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHY 201	College Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 202	College Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
25			20		

Social Sciences (Take all courses)

HST 105 or	American History to 1865 or	3	HISTORY 1300 or	American History to 1877 or	3
HST 106	American History from 1865		HISTORY 1310	American History Since 1877	
PCS 103 or	American Government or	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECN 102 or	Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECN 101	Macroeconomics		ECON 1200	Principles of Macroeconomics	
Total Hours			Total Hours		
12			9		

Humanities (Take all courses)

ART 101 or	Art Appreciation I or		ART 1180 or	Art Appreciation or	
ART 102 or	Art Appreciation II or		MUSIC 1150 or	Music Appreciation or	
MUS 101 or	Fundamentals of Music or	3	THEATRE 1190 or	Theatre Appreciation or	3
MUS 102 or	Music Appreciation or		PHILOS 1105	Introduction to Philosophy	
DRM 120 or	Theatre Appreciation or				
PHI 150	Introduction to Philosophy				
	<i>See your advisor for course options</i>	3		Literature Elective	3
Total Hours			Total Hours		
6			6		

Additional Degree Requirements

MTH 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 101	Biology	4	BIO SCI 1113, 1219	General Biology and Lab	5
CIT 205 or	Programming II or	3	CS 1570, 1580 or	Intro to Programming or	
CIT 105	Programming I		CS 1970, 1980 or	Basic Scientific Programming and Lab or	3
			CS 1971, 1981	Intro to Programming Methodology and Lab	
Total Hours			Total Hours		
10			11		

Additional Courses for Teacher Certification Option (Take all courses)

EDU 220	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDU 245	Educational Psychology	3	PSYCH 2300 or	Educational Psychology	3
PSY 205	Human Lifespan Development	3	EDUC 2102		
			PSYCH 3310	Developmental Psychology	3
Total Hours			Total Hours		
9			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.

72

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.