St. Charles Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

St. Charles Community College

Missouri S&T

Communication Skills (Take all courses)						
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation		3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research		3
COM 106	Public Speaking	3	SPMS 1185	Principles of Speech		3
	Total Hours	9		T	otal Hours	9
Mathematics and Science (Take all courses)						
			=	College Algebra*		
MAT 162 or	College Algebra	4	MATH 1140*	*Required for teacher certification; not a Mathematics BS	requirement.	3
MAT 150	Trigonometry	3	MATH 1160*	Trigonometry* *Required for teacher certification; not a Mathematics BS		2
		_	144 TH 4044	•	requirement.	
MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I		4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II		4
MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus III		4
PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I		4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II		4
	Total Hours	32		Т	otal Hours	25
Social Sciences (Take all courses)						
HIS 146 or	Western Civ: Modern European Heritage or		HISTORY 1200 or	Modern Western Civilization or		
HIS 101 or	US History to 1877 or	3	HISTORY 1300 or	American History to 1877 or		3
HIS 102	US History Since 1877		HISTORY 1310	American History Since 1877		
POL 101	American Government	3	POL SCI 1200	American Government		3
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology		3
ECO 120 or	Principles of Microeconomics or	3		Principles of Microeconomics or		3
ECO 110	Principles of Macroeconomics		1200	Principles of Macroeconomics		
	Total Hours	12			otal Hours	12
Humanities (Take all courses)						
ART 1001 or	Art Appreciation or		ART 1180 or	Art Appreciation or		
MUS 111 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		3
THE 122 or	Intro of Theatre or	Ū	THEATRE 1190 or	Theatre via Video or		Ū
PHL 101	Intro to Philosophy		PHILOS 1105	Intro to Philosophy	0	
LIT 250 or LIT 210 or	English Literature Before 1800 or American Literature From 1620-1865 or		ENGLISH 1211 or ENGLISH 1221 or	British Literature I: The Beginnings to 1800 American Literature: 1600 to 1865 or	U OI	
LIT 270 or	World Lit-Ancient World thru Renaissance or	3	ENGLISH 1231 or	World Literature I or		3
LIT 223	African American Literature	Ŭ	ENGLISH 2245 or	African American Literature		ŭ
211 220	(or other literature elective)		211021011221001	(or other literature elective)		
	Total Hours	6		Т	otal Hours	6
Additional Degree Requirements						
Select additional courses to total up to the maximum transfer credit hours shown below.						
MAT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations		3
MAT 242	Introductory Linear Algebra	3	MATH 3108	Linear Algebra		3
CHM 115 or	General Chemistry I (5) or		CHEM 1310, 1319 or	General Chemistry I and Lab or		
BIO 150 or	General Biology: Cells to Organisms (5) or	4	BIO SCI 1113, 1219	General Biology and Lab		5
BIO 105, 106	Essentials of Biology (3) and Lab (1)		BIO 001 1110, 1210	Contra Biology and Eds		
CPT 135 or	Comp Sci 1 With Python (4) or	•	00.4500	0 (•
CPT 185or	Programming in C# (3) or Java Programming (3)	3	CS 1500	Computational Problem Solving		3
CPT 189	9 9 7	Toook	or Cartification Ont	ion (Take all sources)		
EDIL 242	Additional Courses for					2
EDU 212	Foundations of Education in a Diverse Society	3	EDUC 1040 PSYCH 2300	Perspectives in Education		2
EDU 240	Educational Psychology	3	(EDUC 2102)	Educational Psychology		3
PSY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology		3
EDU 250	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child		3
	Total Hours	12		Т	otal Hours	11
Professional Requirements for Teacher Education Program: Please view all program requirements at						
	reducation.mst.edu/secondaryeducation/.		· ·			
Maximum credit hours to be transferred to Missouri S&T degree requirements. 60						
Missouri COT residence as experience or the last CO beauty of any Missouri COT desired must be completed at Missouri COT						

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.