St. Charles Community College — Missouri S&T Applied Math BS with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2025

<u>1</u>	St. Charles Community College			<u>Missouri S&T</u>	
	C	ommu	unication Skills		
			e all courses.		
NG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	
NG 102 or OM 106	English Composition II or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or	
	Total Hours	6	SPWIS 1105	Principls of Speech Total Ho	ure
			tion and Calance		uis
	ма		tics and Science		
			e all courses.		
AT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	
AT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	
AT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus III	
IY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	
HM 115 or O 105, 106 or O 150 or HY 125	General Chemistry I and Lab (5) or Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5) or Intro to Physical Geology (3)	3	CHEM 1310, 1319* or BIO SCI 1113, 1219* or BIO SCI 1213*, 1219* or GEOLOGY 1110	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) Principles of Biology (3) and Lab*(3) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Credit hours apply to deg totals as indicated for each course. *BIO SCI 1213 will be substituted for 1113. CHEM 1319 and BIO S 1219 are not degree requirements, will transfer as general elective credit.	
	Total Hours	23		Total Ho	urs
		-			uis
			al Sciences		
		Tak	e all courses.		
IS 101 or	US History to 1877 or	3	HISTORY 1300 or	American History to 1877 or	
IS 102	US History Since 1877		HISTORY 1310	American History Since 1877	
OL 101	American Government	3	POL SCI 1200	American Government	
SY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	
	Total Hours	9		Total Ho	urs
		Hu	umanities		
			ct one course.		
RT 1001	Art Appreciation	3	ART 1180	Art Appreciation	
US 111	Music Appreciation	3	MUSIC 1150	Music Appreciation	
HE 122	Intro to the Theatre	3	THEATRE 1190	Theatre via Video	
T 250 or	English Literature Before 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
T 210 or	American Literature From 1620-1865 or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or	
T 272	World Lit-Ancient World thru Renaissance or other non-prerequisite literature		ENGLISH 1231	World Literature I or other non-prerequisite literature	
	Total Hours	3		Total Ho	urs
	Additio	onal D	egree Requirements		
			· · · · · · · · · · · · · · · · · · ·	having all aving the law.	
	Select additional courses to tota Differential Equations	<u> </u>			
AT 250 AT 242	Introductory Linear Algebra	3 3	MATH 3304 MATH 3108	Elementary Differential Equations	
PT 135 or	Computer Science I with Python (4) or	3	MATH 3106		
PT 185 or	C# Programming (3) or	3	CS 1500	Computational Problem Solving	
PT 189	Computer Science II with Java (3)	Ŭ	00 1000	Computational Problem Colving	
	Teacher	Certif	ication Requirements		
		Tak	e all courses.		
DU 212	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	
	•	3		•	
DU 285	Teaching Profession with Field Experience		EDUC 1104 EDUC 2102 or	Teacher Field Experience I	
DU 240	Educational Psychology	3	PSYCH 2300	Educational Psychology	
SY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	
DU 250	Eduction of Example and Language	2	EDUC 2310 or	Education of the Exceptional Child or	
00 200	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child	
	Total Hours	15		Total Ho	urs
Professional Re	equirements for Teacher Education Program: Pleas	e view a	all program requirements at	https://teachereducation.mst.edu/secondaryedu	catior
	Maximum credit hours to be trans		-	•	
S	Missouri S&T residency requirements: The las Students must receive special permission from Missouri S&T Students are not required to compl	to apply n	nore than the maximum credit hou	rs listed above toward the Missouri S&T degree.	
his transfer quide is publish	ed by Missouri University of Science and Technology and is in effect as of F	all 2025. Fu	urther information or updates are available 522-0938.	from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@	@mst.edu