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

	St. Charles Community College			<u>Missouri S&T</u>		
	Co	mmuni	cation Skills			
		Take al	l courses.			
NG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation		
NG 102 or	English Composition II or	2	ENGLISH 1160 or	Writing and Research or		
NG 115	Technical Writing	3	ENGLISH 3560	Technical Writing		
OM 106	Public Speaking	3	SPMS 1185	Principles of Speech		
	Total Hours	9			Total Hours	
	Math	ematic	s and Science			
			l 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		
HY 250	Engineering Physics I	4	PHYSICS 1135	Engineering Physics I		
HY 251	Engineering Physics II	4	PHYSICS 2135	Engineering Physics II		
HM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab		
HM 116	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analys *CHEM 1510 is not an S&T degree reguirement. Will transfer as		
	Total Hours	33			Total Hours	
		Social	Sciences			
			l courses.			
IIS 146 or	Western Civ: Modern European Heritage or	rano an	HISTORY 1300 or	American History to 1877 or		
IIS 101 or	US History to 1877 or	3	HISTORY 1310 or	American History Since 1877 or		
IIS 102	US History Since 1877		HISTORY 1200	Modern Western Civilization		
OL 101	American Government	3	POL SCI 1200	American Government		
SY 101	Intro to Psychology	3	PSYCH 1101	General Psychology		
	Total Hours	9			Total Hours	
		Hum	anities			
		Take al	l courses.			
RT 1001 or	Art Appreciation or		ART 1180 or	Art Appreciation or		
IUS 111 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		
HE 122	Intro of Theatre		THEATRE 1190	Theatre via Video		
IT 250 or IT 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 or American Literature: 1600 to 1865 or		
IT 272 or	World Lit-Ancient World thru Renaissance or African	3	ENGLISH 1221 OF	World Literature I or		
IT 223	American Literature or other literature		ENGLISH 2245	African American Literature or other literature		
-	Total Hours	6			Total Hours	
			ee Requirements			
	Select additional courses to total u			bours shown bolow		
AT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations		
	· · · · · · · · · · · · · · · · · · ·			Linear Algebra		
IAT 242	Introductory Linear Algebra	3	MATH 3108	Applies to degree as math/stat elective.		
0.405				General Biology (3) or		
8IO 105 or 8IO 150	Essentials of Biology (3) or General Biology: Cells to Organisms (5)	3-5	BIO 1113 or BIO SCI 1213, 1219*	General Biology (3) and Lab* (1)		
10 150	General Biology. Cells to Organisms (5)		DIO 301 1213, 1219	*The lab is not a degree requirement. Will transfer as general e	ective credit.	
PHY 130 or	Astronomy or		PHYSICS 1505 or	Introductory Astronomy or		
PHY 125	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology		
111 125	into to r nysical ocology			Will be substituted for PHYSICS 1605.		
	leacher C		tion Requirements			
			l courses.			
DU 212	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society		
DU 285	Teaching Profession with Field Experience	3	EDUC 1104 EDUC 2102 or	Teacher Field Experience I		
DU 240	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology		
SY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology		
			EDUC 2310 or	Education of the Exceptional Child or		
DU 250	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child		
	Total Hours	15			Total Hours	
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oressional Rec	uirements for Teacher Education Program: Please view all pr	ogram re	equirements at https://tea	acnereducation.mst.edu/secondaryeducation	<i>.</i>	
	Maximum credit hours to be transfe	erred to	Missouri S&T dea	ree requirements.		
			•	•		
	Missouri S&T residency requirements: The last 6					
	Students must receive special permission from Missouri S&T to a	apply more	man the maximum credit ho	urs listed above toward the Missouri S&T degree.		
	Students are not required to complete	all course	s on this quide before transfe	erring to Missouri S&T		