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

	Johnson County Community College	Missouri S&T				
	C		ication Skills			
ENOL 404			all courses.			
ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation		3
ENGL 122 or ENGL 123	Composition II or Technical Writing I	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing		3
COMS 121	Public Speaking	3	SPMS 1185	Principles of Speech		3
COIVIS 121	Total Hour		3PIVI3 1103	Principles of Speech		
	1.00				Total Hours	9
	Ma	ithematic	cs and Science			
		Take a	all courses.			
MATH 241 and	Calculus I and	10	MATH 1214 and	Calculus I and		8
MATH 242	Calculus II		MATH 1215	Calculus II		
MATH 243 PHYS 220	Calculus III Engineering Physics I	5 5	MATH 2222 PHYSICS 1135	Calculus III Engineering Physics I		4
PHYS 221	Engineering Physics I	5	PHYSICS 2135	Engineering Physics II		4
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab		5
CHEM 131	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analy *CHEM 1510 is not an S&T degree reguirement. Will transfer as		3
	Total Hour	s 34		Chem 10 to 1	Total Hours	28
	Total Houl		l Calamana		Total Hours	20
			l Sciences			
LUCTAGG	W to O' O' O' O' O'	Take a	all courses.			
HIST 126 or HIST 140 or	Western Civ: Scientific Revolution to Modern Age or US History to 1877 or	3	HISTORY 1300 or HISTORY 1310 or	American History to 1877 or American History Since 1877 or		3
HIST 141	US History since 1877	2	HISTORY 1200	Modern Western Civilization		2
POLS 124 PSYC 130	American National Government Intro to Psychology	3	POL SCI 1200 PSYCH 1101	American Government General Psychology		3
1 3 10 130	Total Hour		1 31011 1101	General i Sychology	Total Hours	9
	Total Hou		nanities		Total Flours	<u> </u>
MUS 121 or	Intro to Music Listening or	таке	ART 1180 or	Art Appreciation or		
MUS 126 or	Intro to Music Eistering of	3	MUSIC 1150 or	Music Appreciation or		3
THEA 120	Intro to Theatre	ŭ	THEATRE 1190	Theatre via Video		Ü
ENGL 236 or	British Literature to 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or		
ENGL 246 or	American Literature I or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or		3
ENGL 251 or	World Literature to 1620 or	3	ENGLISH 1231 or	World Literature I or		3
ENGL 217	Literature by Women or other literature		ENGLISH 2242	Literature by Women or other literature		
	Total Hour				Total Hours	6
	Addition	onal Deເ	gree Requirements			
	Select additional courses to total	al up to the	e maximum transfer credit	hours shown below.		
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations		3
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra Applies to degree as math/stat elective.		3
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113, 1219	General Biology and Lab* *BIO SCI 1213 will be substituted for 1113. The lab is not a degr will transfer as general elective credit.	ee requirement,	3
ASTR 120 or ASTR 122 or	Fundamentals of Astronomy (3) or	3	PHYSICS 1505 or	Introductory Astronomy or		3
GEOS 130	Astronomy (4) or General Geology (5)	3	GEOLOGY 1110	Physical and Environmental Geology Will be substituted for PHYSICS 1605.		3
	Toachou	Certific	ation Requirements			
EDUC 121	Introduction to Teaching	таке а 3	EDUC 1074	Education in a Diverse Society		3
PSYC 225	Educational Psychology	3	EDUC 2102 or	Educational Psychology		1
PSYC 215	Child Development	3	PSYCH 2300 PSYCH 3310	Developmental Psychology		3
F310 215	Total Hour		F31CH3310	Developmental Esychology	Total Hours	7
Professional Requir	rements for Teacher Education Program: Please view all p	rogram red	quirements at https://teach	ereducation.mst.edu/secondaryeducation/.		
	Maximum credit hours to be trans	sferred t	o Missouri S&T degr	ee requirements.		61
Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T. must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree. required to complete all courses on this guide before transferring to Missouri S&T.					Students	Students are not
This transfer quide is	s published by Missouri University of Science and Technology and is in effect as of Fall 2				.edu. or 800-522-003	18.
rriis transier guide is	s paonistica by inissount offinersity of science and Technology and is interect as of Pail 2	ozo. i ultilei INI	ormanon or updates are available from i	viissouri ca i Transici Auriissions di transier.Ilist.euu, transier@mst	.cua, or 000-022-093	