## St. Charles Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

TNC 404				<u>Missouri S&amp;T</u>		
TNC 404	Communicat	ion Skil	lls (Take all course	es)		
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation		3
NG 102 or	English Composition II or	3	ENGLISH 1160 or	Writing and Research or		3
NG 115	Technical Writing	3	ENGLISH 3560	Technical Writing		3
OM 106	Public Speaking	3	SPMS 1185	Principles of Speech		3
	Total Hours	9			Total Hours	9
	Mathematics a	nd Scie	nce (Take all cour	ses)		
1AT 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
ИАТ 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus III		4
PHY 250	Engineering Physics I	4	PHYSICS 1135	Engineering Physics I		4
PHY 251	Engineering Physics II	4	PHYSICS 2135	Engineering Physics II		4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab		5
CHM 116	General Chemistry II	5	CHEM 1320	General Chemistry II		3
	Total Hours	33		•	Total Hours	28
	Social Sci	ences (	(Take all courses)			
HS 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
IIS 102	US History Since 1877		HISTORY 1310	American History Since 1877		
OL 101	American Government	3	POL SCI 1200	American Government		3
SY 101	Intro to Psychology	3	PSYCH 1101	General Psychology		3
	Total Hours	9		, ,,	Total Hours	9
	Humani	ties (Ta	ake all courses)			
ART 1001 or	Art Appreciation or		ART 1180 or	Art Appreciation or		
/IUS 111 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		3
HE 122	Intro of Theatre		THEATRE 1190	Theatre via Video		
.IT 250 or	English Literature Before 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1	800 or	
.IT 210 or	American Literature From 1620-1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or		
.IT 272 or	World Lit-Ancient World thru Renaissance or African	3	ENGLISH 1231 or	World Literature I or		3
JT 223	American Literature		ENGLISH 2245 or	African American Literature		
	(or other literature elective)			(or other literature elective)		
	Total Hours	6			Total Hours	6
			ee Requirements			
	Select additional courses to total up t					
1AT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations		3
BIO 105 or BIO 150	Essentials of Biology (3) or	3-5	BIO SCI 1113	General Biology		3
PHY 130 or PHY	General Biology: Cells to Organisms (5)		PHYSICS 1505 or	Introductory Astronomy or		
25	Astronomy or Intro to Physical Geology	3	GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology		3
	Additional Courses for Teac	her Ce		, , , , , , , , , , , , , , , , , , , ,		
DU 212	Foundations of Education in a Diverse Society	3	EDUC 1040	Perspectives in Education		2
	·		PSYCH 2300	·		
DI 1 0 4 0	Educational Psychology	3	(EDUC 2102)	Educational Psychology		3
DU 240						_
EDU 240 PSY 110 EDU 250	Human Growth and Development	3	PSYCH 3310 PSYCH 4310	Developmental Psychology		3

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.

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Maximum credit hours to be transferred to Missouri S&T degree requirements.

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.