## St. Charles Community College — Missouri S&T Physics BS Transfer Guide Effective as of Fall 2024

	St. Charles Community College			Missouri S&T	
	Co	mmuni	cation Skills		
		Take al	II 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
	Total Hours	6		Total Hours	6
	Math	ematic	s and Science		
		Take al	Il courses.		
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 Analytic Geometry III	5	MATH 2222	Calculus III	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *Chem 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
1111 201	Total Hours	35	11110100 2100	Total Hours	
			Sciences	rotarrioun	
	Select 9 hours to include at I	east one		•	
HIS 146 or	Western Civ: Modern European Heritage or		HISTORY 1200 or	Modern Western Civilization or	
HIS 101 or	US History to 1877 or	2	HISTORY 1300 or	American History to 1877 or	2
HIS 102 or	US History Since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3
POL 101	American Government At least one of these courses is required to satisfy state requirement.		POL SCI 1200	American Government At least one of these courses is required to satisfy state requirement.	
	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 120 or ECO 110	Principles of Macroeconomics or other economics	3	ECON 1200	Principles of Macroeconomics or other economics	3
PSY 101	Intro to Psychology (or other psychology)		PSYCH 1101	General Psychology or other psychology	3
Social Science	Any economics, history, political science, sociology, or	3	Coolel Colones	Any economics, history, political science, sociology, or	3
Social Science	psychology.	3	Social Science	psychology.	3
	Total Hours	9		Total Hours	s 9
		Hum	nanities		
	Select 6 credit ho	ours to ir	nclude at least one litera	ture.	
PHL 101		3	PHILOS 1105	Self and World: Intro to Philosophy	3
	Intro to Philosophy or other philosophy			or other philosophy	
ART 1101	Art Appreciation or other fine art	3	ART 118	Art Appreciation or other fine art	3
MUS 111	Music Appreciation or other music	3	MUS 1150	Music Understanding and Appreciation or other music	3
THE 122	Intro of Theatre or other theater	3	THEATRE 1190	Theatre via Video or other theater	3
LIT 250 or	English Literature Before 1800 or	J	ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	3
LIT 210 or	American Literature From 1620-1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
LIT 272 or	World Lit-Ancient World thru Renaissance or African	3	ENGLISH 1231 or	World Literature I or	3
LIT 223	American Literature		ENGLISH 2245 or	African American Literature	
	or other literature			or other literature	
Humanities	Other fine art, literature, or philosophy.	3	Humanities	Other fine art, literature, or philosophy.	3
	Total Hours	6		Total Hours	s 6
	Addition	al Deg	ree Requirements		
	Select additional courses to total u	up to the	maximum transfer cred	it hours shown below.	
MAT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MAT 242	Introductory Linear Algebra	3	MATH 3108	Linear Algebra Recommended but not required; satisfies a math/stat elective requirement.	3
CPT 135 or	Comp Sci 1 With Python (4) or				
CPT 185 or	Programming in C# (3) or		CS 1500 or	Computational Problem Solving (3)or	
CPT 189 or	Java Programming (3) or	3	CS 1570, 1580*	Intro to C++ Programming and Lab* (4)	3
CPT 182*	Beginning Programming in C++* (3)		00 1010, 1000	*Will be substituted for the computer science requirement.	
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6
	Maximum credit hours to be transfe		J	•	60
	Missouri S&T residency requirements: The last 6 Students must receive special permission from Missouri S&T to a Students are not required to complete	apply more	e than the maximum credit ho	ours listed above toward the Missouri S&T degree.	
This transfer guide is pu	ublished by Missouri University of Science and Technology and is in effect as of Fall 2024.	Further infor	rmation or updates are available from	m Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800	)-522-0938.