St. Charles Community College — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2023

	St. Charles Community College			Missouri S&T	
	Comm		ion Skills (Take all co		
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	O /T - l	Total Hours	6
			nd Science (Take all o		
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 Analytical 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 PHY 250	General Chemistry II Engineering Physics I	5 5	CHEM 1320 PHYSICS 1135	General Chemistry II Engineering Physics I	3 4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics I Engineering Physics II	4
FH1 231	Total Hours	35	PH 1 3103 2 133	Total Hours	28
	i otal i louis		Social Sciences	Total Hours	20
	Select 9 hours to include	at leas		•	
HIS 146 or	Western Civ: Modern European Heritage or		HISTORY 1200 or	Modern Western Civilization or	
HIS 101 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 102 or	US History Since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3
POL 101	American Government		POL SCI 1200	American Government	
	(At least one of these courses is required to satisfy state requirement)			(At least one of these courses is required to satisfy state requirement)	
E00 400	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 120 or	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
ECO 110	(or other economics elective)			(or other economics)	
PSY 101	Intro to Psychology (or other psychology)		PSYCH 1101	General Psychology (or other psychology)	3
	Social Sciences Elective: Any economics, history,	_		Social Sciences Elective: Any economics, history,	
	political science, sociology, psychology elective	3	Social Sciences	political science, sociology, psychology elective	3
	Total Hours	9		Total Hours	9
			Humanities		
	Select 6 credi	t hour	s to include at least o	one literature.	
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
	. ,			(or other philosophy)	
ART 1101	Art Appreciation	3	ART 118	Art Appreciation (or other fine art)	3
MUS 111	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation (or other music)	3
THE 122	Intro of Theatre	3	THEATRE 1190	Theatre via Video (or other theater)	3
LIT 250 or	English Literature Before 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
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	3	ENGLISH 1231 or	World Literature I or	3
LIT 223	African American Literature		ENGLISH 2245	African American Literature	
	(or other literature elective)			(or other literature elective)	
	Other fine art, literature, or philosophy elective	3		Other fine art, literature, or philosophy elective	3
	Total Hours	6		Total Hours	6
	Ad	ditiona	al Degree Requiremer	nts	
	Select additional courses to to	al up t	to the maximum trans	sfer credit hours shown below.	
MAT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
W. CT 200	Dinoronial Equations	J	W# 1111 000 1	Linear Algebra	Ū
MAT 242	Introductory Linear Algebra	3	MATH 3108	Recommended but not required, satisfies a math/stat elective requirement.	3
CPT 135 or	Comp Sci 1 With Python (4) or				
CPT 185or	Programming in C# (3) or	3	CS 1500	Computational Problem Solving	3
CPT 189	Java Programming (3)			3	
	Maximum Free Electives	6		Maximum Free Electives	6
	Maximum credit hours to be to		rred to Missouri S&T	degree requirements	60
					30
	Missouri S&T residency requirements: The Students must receive special permission from Missouri Students are not required to control of the students.	S&T to ap		redit 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.

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.