St. Charles Community College — Missouri S&T Applied Mathematics BS

Transfer Guide Effective as of Fall 2024

	St. Charles Community College			Missouri S&T	
	English a		mmunication Skills		
=N-0-4-4			l courses.	-	
ENG 101	English Composition I English Composition II or	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 115	Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COM 106	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	
		Hum	anities		
		s to inclu	de at least one literature.		
LIT 250 or	English Literature Before 1800 or		ENGLISH 1211 or	British Literature I or	
LIT 260 or LIT 210 or	English Literature After 1800 or American Literature From 1620-1865 or		ENGLISH 1212 or ENGLISH 1221 or	British Literature II or American Literature 1600 to 1865 or	
LIT 220 or	American Literature From 1865-Present or	3	ENGLISH 1222 or	American Literature 1865 to Present or	3
LIT 272 or	World Lit-Ancient World thru Renaissance or African		ENGLISH 1231 or	World Literature I or	
LIT 223	American Literature		ENGLISH 2245	African American Literature or other literature	
	or other literature			At least one literature course is required.	
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ART 1001	Art Appreciation	3	ART 118	Art Appreciation	3
MUS 111 THE 122	Music Appreciation	3	MUS 1150 THEATRE 1190	Music Understanding and Appreciation	3
Foreign Language	Intro of Theatre Any foreign language	3	Foreign Language	Theatre via Video Any foreign language	3
0 0 0	Any foreign language Any fine art, English, music, theatre, philosophy or			Any fine art, English, music, theatre, philosophy or	
Humanities	speech.	3	Humanities	speech.	3
Social Science	Any history, political sicence, or psychology.	3	Social Science	Any history, political sicence, or psychology.	3
	Total Hours			Total Hours	
			Sciences		
			I courses.		
HIS 146 or	Western Civ: Modern European Heritage or	ranc ar	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	
E00 400#	At least one of these courses is required to satisfy state requirement.		500N 4400t	At least one of these courses is required to satisfy state requirement.	
ECO 120* or	Principles of Microeconomics* or		ECON 1100* or	Principles of Microeconomics* or	
ECO 110*	Principles of Macroeconomics* *Students pursuing the Actuarial Science emphasis take BOTH ECO110 and	3	ECON 1200*	Principles of Macroeconomics* *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100	3
	120 (6 hours econ for a total of 9 hours social sciences).			and 1200 (6 hours econ for a total of 9 hours social sciences).	
	Total Hours	6		Total Hours	s 6
			s, and Computer Scie		
	matiematios, o		ll 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
Mat 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MAT 242	Introductory Linear Algebra	3	MATH 3108	Linear Algebra	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)				
CPT 182	Beginning Programming in C++	3	CS 1570, 1580	Intro to C++ Programming and Lab	4
	Total Hours	27		Total Hours	25
		Sci	ience		
	Select PHYSICS 1135 and 2 additional courses fro	m the op	tions below. A total of 13 h	ours will apply to this requirement.	
PHY 250	Engineering Physics I required	5	PHYSICS 1135	Engineering Physics I required	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
				General Chemistry II (3) and Qualitative Analysis (2)	
CHM 116	General Chemistry II	5	CHEM 1320, 1510*	*Chem 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
BIO 105, 106 or	Essentials of Biology and Lab (4) or	4	BIO SCI 1113, 1219 or	General Biology or	4
BIO 150	General Biology: Cells to Organisms (5)		BIO SCI 1213, 1219	Principles of Biology	
	Total Hours		ne a Bernella and a section	Total Hours	s 13
			ree Requirements		
	Select additional courses to total t	up to the	maximum transfer credit h		
	Technical electives in biology, chemistry, computer			Technical electives in biology, chemistry, computer	
Technical Electives	science, economics, engineering, geology, mechanics,	3	Technical Electives	science, economics, engineering, geology, mechanics,	3
	or physics approved by advisor.			or physics approved by advisor.	
Electives	Maximum Free Electives	14	Electives	Maximum Free Electives	14
	Maximum cradit hours to be transf	orrod 4	o Miccouri CPT doard	no roquiromente	60
	Maximum credit hours to be transf	errea to	o missouri sa i degre	e requirements.	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				
	Stadonio dio notroquilod to complete	J. J	and gaide belote trailelett		

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2024. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.