## Johnson County Community College — Missouri S&T Computer Science BS Transfer Guide

	·		e as of Fall 2023		
	Johnson County Community College			Missouri S&T	
	Communicati	on Sk	ills and (Take all cou	irses)	
ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
COMS 121	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9 bomo	tics and Science (To	Total Hours	9
CS 210 or	Computer Science, Mat	nema	tics, and Science (Ta	ike all courses)	
CS 210 01 CS 211	Discrete Structures II	3	CS 1200	Discrete Mathematics for Computer Science	3
CS 235 or	Object-Oriented Programming Using C++ or		CS 1500* or	Computational Problem Solving* (preferred) or	
CS 250 or CS 200*	Basic Data Structures using C++ or Concepts of Programming Algorithms Using C++*	4	CS 1500* or CS 1971,1981*	Intro to Programming Methodology and Lab*  *CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary.	3
MATH 241 and	Calculus I and	40	MATH 1214 and	Calculus I and	•
MATH 242	Calculus II	10	MATH 1215	Calculus II	8
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra	3
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 124, 125 or	General Chemistry I and Lab (5) or		CHEM 1310, 1319 or BIO SCI 1113, 1219or	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or	
BIOL 121 or	Intro to Biology for Non-Majors (4) or		BIO SCI 2213, 2219 or	Cell Biology (3) and Lab (1) or	
BIOL 135 or BIOL 127 or	Principles of Cell and Molecular Biology (4) or General Zoology (5) or	4	BIO SCI 2353, 2359 or	Zoology (3) and Lab (1) or	4
BIOL 127 or	General Botony (5)		BIO SCI 2383, 2389	Plant Biology (3) and Lab (1)	
5.02 .20 0.		24		Satisfies science lecture/lab requirement.	29
	Total Hours	34	/Science Electives	Total Hours	29
Salact up to (	تانوات hours in engineering/science electives not all			or degree requirement. See Approved Science	co and
	Engineering Electives at		://cs.mst.edu/underg	raduate-degree/	ce and
MATH 243 or	Calculus III (5) or		MATH 2222 or	Calculus III or	
MATH 254	Differential Equations (4)	4	MATH 3304	Elementary Differential Equations Or other math 2000-level or higher or Any statistics 4000-level or higher	3
ENGR 251 or	Statics or		CIV ENG 2200 or	Statics or	
ENGR 254	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics (2) or Or other course with the equivalent of a Missouri S&T engineering designation.	3
	Any biology, chemistry, geology, or environmental science.	3		Any biology, chemistry, geology, or environmental science.	3
	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3		Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3
	Total Hours	6		Total Hours	6
	Social Sciences (Select 9 credit hou		include one course to		
HIST 126 or	Western Civ: Scientific Revolution to Modern Age or		HISTORY 1200 or	Modern Western Civilization or	
HIST 140 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIST 141 or	US History since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3
POLS 124	American National Government		POL SCI 1200	American Government	
	(At least one of these courses is required to satisfy state			(At least one of these courses is required to satisfy state requirement)	
ECON 231 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECON 230	Principles of Macroeconomics		ECON 1200	Principles of Macroeconomics (or upper-level economics)	
PSYC 130	Intro to Psychology	3	PSYCH 1101	General Psychology (or upper-level psychology)	3
BUS 141 or ACCT 121 or	Principles of Management or Accounting I or		BUS 1110 or BUS 1210 or	Intro to Management and Entrepreneurship or Financial Accounting or	
BLAW 261	Business Law I	3	BUS 2910	Business Law	3
	(or other approved business course; see Social Sciences Approved Electives at			(or other approved business course; see Social Sciences Approved Electives	
	https://cs.mst.edu/undergraduate-degree/)			at https://cs.mst.edu/undergraduate-degree/)	
	Other economics, history, political science, psychology,			Other economics, history, political science, psychology,	
	business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3		business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3
	,				
	Total Hours	9		Total Hours	9
			ties and Ethics		
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PHIL 121 MUS 121 or	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
MUS 121 or MUS 126	Intro to Music Listening or Intro to World Music	3	MUS 1150	Music Understanding and Appreciation	3
THEA 120	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3
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	J	ENGLISH 1231 or	World Literature I or	Ü
ENGL 217	Literature by Women	3	ENGLISH 2242	Literature by Women Any foreign language	3
Foreign Language	Any foreign language		Foreign Language	Other humanities elective from the list of approved	
	Other humanities elective from the list of approved courses.	3		courses.	3
	Total Hours	6		Total Hours	6
			egree Requirements		
	Select additional courses to total u	p to th	ne maximum transfer	credit hours shown below.	
ENGR 121	Engineering Orientation	2	FR ENG 1100	Study and Careers in Engineering	1
	Maximum Free Electives	8		Maximum Free Electives	8

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.

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

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