St. Charles Community College — Missouri S&T Computer Science BS Transfer Guide Effective as of Fall 2023

	St. Charles Community College			Missouri S&T	
	Communic	cation S	kills and (Take all	courses)	
NG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
NG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
OM 106	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
	Computer Science,	Mathem	natics, and Science	(Take all courses)	
PT 135 or	Computer Science I with Python (4) or			<u> </u>	
PT 185 or	Programming in C Sharp (3) or	3	CS 1500	Computational Problem Solving	3
PT 189	Java Programming (3)				
PT 182	Beginning Programming in C++	3	CS 1570, 1580	Intro to Programming	3
PT 281	Intro to Data Structures with C++	3	CS 1575	Data Structures	3
AT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
AT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
AT 242	Introductory Linear Algebra	3	MATH 3108	Linear Algebra	3
HY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
HY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
HM 115 or	General Chemistry I (5)		CHEM 1310, 1319 or	General Chemistry I (4) and Lab (1) or	_
IO 105,106 or	Essentials of Biology (3) and Lab (1) or		BIO SCI 1113, 1219 or	General Biology (3) and Lab (2) or	
HY 125	Intro to Physical Geology (3)	4	GEOLOGY 1110	Physical and Environmental Geology (3)	4
111 120	intro to i riyolodi Goology (c)		02020011110	(Applies to S&T degree as science/engineering elective)	
	Total Hours	36		Total Hours	32
	En	gineerir	ng/Science Elective	s	
Select up to 6	hours in engineering/science electives i	not alrea	ady used to satisfy	another degree requirement. See Approved S	cien
	and Engineering Elective				
AT 040			MATH 2222 or	Calculus III or	
IAT 240 or IAT 250	Calculus and Analytical Geometry III or Differential Equations	3	MATH 3304	Elementary Differential Equations	3
	Differential Equations			Or other math 2000-level or higher or statistics 4000-level or higher	
GR 170 or	Engineering Mechanics-Statics or		CIV ENG 2200 or	Statics or	
GR 210 or	Engineering Mechanics-Dynamics or		MECH ENG 2350 or	Engineering Mechanics-Dynamics (2) or	
GR 220	Electrical Circuits	3	ELEC ENG 2100	Circuits I	3
				Or other course with the equivalent of a Missouri S&T engineering	
	Any biology, chemistry, geology, or environmental			designation. Any biology, chemistry, geology, or environmental	
	science.	3		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
		6			
	Total Hours		s include one cour	Total Hours	6
	Social Sciences (Select 9 credit	nours to	o include one cours	se to satisfy state requirement)	
S 146 or	Western Civ: Modern European Heritage or		LUCTORY	Modern Western Civilization or	
IS 101 or	US History to 1877 or		HISTORY 1200 or	American History to 1877 or	
S 102 or	US History Since 1877 or	3	HISTORY 1300 or	American History Since 1877 or	3
OL 101	American Government		HISTORY 1310 or	American Government	
	(At least one of these courses is required to satisfy state		POL SCI 1200	(At least one of these courses is required to satisfy state requirement)	
20 120 04	requirement)		ECON 1100 or		
CO 120 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
CO 110 SY 101	Principles of Macroeconomics	3	ECON 1200 PSYCH 1101	Principles of Macroeconomics (or upper-level economics)	3
JS 201 or	Intro to Psychology	3	BUS 1110 or	General Psychology (or upper-level psychology)	3
	Principles of Management or		BUS 1210 or	Intro to Management and Entrepreneurship or	
CT 110 or US 246	Financial Accounting I or		BUS 2910	Financial Accounting or Business Law	_
JS 240	Legal Environment of Business (or other approved business course; see Social Sciences Approved	3	BUS 2910	(or other approved business course; see Social Sciences Approved Electives	3
	Electives at https://cs.mst.edu/undergraduate-degree/)			at https://cs.mst.edu/undergraduate-degree/)	
	Other economics, history, political science,			Other economics, history, political science, psychology,	
	psychology, business elective from the Social	3		business elective from the Social Sciences Approved	3
	Sciences Approved Electives at			Electives at https://cs.mst.edu/undergraduate-degree/	Ŭ
	https://cs.mst.edu/undergraduate-degree/			· · · · · · · · · · · · · · · · · · ·	
	Total Hours	9		Total Hours	9
		Humai	nities and Ethics		
	(Select one	e human	nities and one ethic	s course)	
S 105	Business Ethics	3	PHILOS 3235	Business Ethics	3
				At least one ethics course is required.	
L 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
E 123 or	Intro to Cinema or	3	ART 1185	Study of Film	3
M 124	History of Film			•	
IS 111	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
E 122 250 or	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3
	English Literature Before 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
210 or 272 or	American Literature From 1620-1865 or World Lit-Ancient World thru Renaissance or	3	ENGLISH 1221 or ENGLISH 1231 or	American Literature: 1600 to 1865 or World Literature I or	3
272 or 223					
	African American Literature	2	ENGLISH 2245 or	African American Literature	3
eign Language	Any foreign language Other humanities elective from the list of approved	3	Foreign Language	Any foreign language Other humanities elective from the list of approved	J
	courses.	3		other numanities elective from the list of approved courses.	3
	courses. Total Hours	6		courses. Total Hours	6
			Degree Requiremer		
	Add				
		al lin to	the maximum trans		
	Select additional courses to total	ii up to			1
R 100	Select additional courses to total	1	FR ENG 1100	Study and Careers in Engineering and Computing	
R 100			FR ENG 1100	Study and Careers in Engineering and Computing Maximum Free Electives	
R 100	Introduction to Engineering	1	FR ENG 1100		8
SR 100	Introduction to Engineering Maximum Free Electives	1 8		Maximum Free Electives	8
SR 100	Introduction to Engineering Maximum Free Electives Maximum credit hours to be tra	1 8 Insferre	d to Missouri S&T o	Maximum Free Electives degree requirements.	8
R 100	Introduction to Engineering Maximum Free Electives Maximum credit hours to be tra Missouri S&T residency requirements: The	1 8 I nsferre de last 60 ho	d to Missouri S&T ours of any Missouri S&T deg	Maximum Free Electives degree requirements. gree must be completed at Missouri S&T.	
R 100	Introduction to Engineering Maximum Free Electives Maximum credit hours to be tra	1 8 I nsferre d e last 60 ho &T to apply	d to Missouri S&T ours of any Missouri S&T degrated and the maximum created that the maximum created and the maximum created a	Maximum Free Electives degree requirements. gree must be completed at Missouri S&T. edit hours listed above toward the Missouri S&T degree.	8