## East Central College — Missouri S&T Computer Science BS Transfer Guide Effective as of Fall 2023

	East Central College			<u>Missouri S&amp;T</u>	
			Skills and (Take all	· ·	
NG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
NG 102 or NG 104	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 1600	Writing and Research or Intro to Technical Communication	3
OM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
	Computer Science	, Mathe	matics, and Science	e (Take all courses)	
00.054			CS 1500* or	Computational Problem Solving* (preferred) or	
GR 251 or GR 221,222	Data Structures or C++ Program Engineers and Lab	3-4	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	3
011 221,222	Off I Togram Engineers and Eab			CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary.	
TH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
TH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
TH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
HY 211, 212	General Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	4
HY 221, 222	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	4
HM 111 or	General Chemistry I and Lab (5) or	Ū	CHEM 1310, 1319 or	General Chemistry I (4) and Lab (1) or	
IO 111 or	Principles of Biology I and Lab (5) or		BIO SCI 1113, 1219 or	General Biology (3) and Lab (1) or	
	Principles of Biology II and Lab (5) or	4-5	BIO SCI 1223, 1229or	Biodiversity (3) and Lab (1) or	4-
	General Zoology (4)		BIO SCI 2353, 2359	Zoology (3) and Lab (1) Satisfies science lecture/lab requirement.	
	Total Hours	30		Total Hours	2
	E	ngineer	ring/Science Elective	es	
Select up t				tisfy another degree requirement. See Appre	oveq
		Elective	s at https://cs.mst.e	du/undergraduate-degree/	
TH 220 or	Analytical Geometry & Calculus III (5) or		MATH 2222 or	Calculus III or	
ITH 245	Differential Equations (3)	3-5	MATH 3304	Elementary Differential Equations	4
	Or other math 2000-level or higher or Any statistics 4000-level or higher	-		Or other math 2000-level or higher or Any statistics 4000-level or higher	
GR 203 or	Engineering Mechanics-Statics or		CIV ENG 2200 or	Statics or	
GR 214 or	Engineering Mechanics-Dynamics or		MECH ENG 2350 or	Engineering Mechanics-Dynamics (2) or	
GR 231	Intro to Circuit Theory	3	ELEC ENG 2100	Circuits I	3
	Or other course with the equivalent of a Missouri			Or other course with the equivalent of a Missouri S&T	
	S&T engineering designation. Any biology, chemistry, geology, or			engineering designation. Any biology, chemistry, geology, or environmental	
	environmental science.	3		science.	3
	Any physics excluding the equivalent of S&T	3		Any physics excluding the equivalent of S&T PHYS	3
	PHYS 2111, 2119, 2135, and 2145.			2111, 2119, 2135, and 2145.	
	Total Hours	6		Total Hours	6
	Social Sciences (Select 9 credit	t hours	to include one cour	se to satisfy state requirement)	
ST 101 or	US History to 1877 or		HISTORY 1200 or	Modern Western Civilization or	
ST 102 or IV 202 or	US History Since 1877 or European Civilization II or		HISTORY 1300 or	American History to 1877 or	
SC 102	US Government I: National and State	3	HISTORY 1310 or	American History Since 1877 or	3
	(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)	
CO 102 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
CO 101	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics (or upper-level economics)	3
SY 101	General Psychology	3	PSYCH 1101	General Psychology (or upper-level psychology)	3
CC 101 or	Financial Accounting I or		BUS 1210 or	Financial Accounting or	
US 234	Legal Environment of Business (or other approved business course: see Social Sciences Approved	3	BUS 2910	Business Law (or other approved business course; see Social Sciences Approved Electives at	3
	Electives at https://cs.mst.edu/undergraduate-degree/)			https://cs.mst.edu/undergraduate-degree/)	
	Other economics, history, political science,				
	psychology, business elective from the Social			Other economics, history, political science, psychology,	
	Sciences Approved Electives at	3		business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3
	https://cs.mst.edu/undergraduate-degree/			1 0 0	
	Total Hours	9	onition and Ethion	Total Hours	9
	(Salact or		anities and Ethics		
	(Select of	ie numa	anities and one ethic	•	
HL 203	Ethics	3	PHILOS 1130	How Should I Live? An Intro to Ethics Computer Science department will substitute for required ethics elective.	3
HL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
RT 101	Art Appreciation	3	ART 1185	Study of Film	
US 101	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
HE 101	Theatre Appreciation	3	THEATRE 1190	Theatre via Video	3
NG 210 or NG 221 or	Survey British Lit: Beginnings - 1784 or Survey American Lit: Beginnings - 1865 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
NG 124 or	World Literature I or	2	ENGLISH 1221 or	American Literature: 1600 to 1865 or	
NG 214 or	Women's Literature or	3	ENGLISH 1231 or ENGLISH 2242 or	World Literature I or Literature by Women or	3
NG 215	African-American Literature (or other literature elective)		ENGLISH 2245	African American Literature	
		6	Family 1		
oreign Language	Any foreign language	3	Foreign Language	Any foreign language	3
	Other humanities elective from the list of	3		Other humanities elective from the list of approved	3
	approved courses.			courses.	6
	Total Hours	6 ditional	Degree Requireme	Total Hours	
	Ad Select additional courses to to				
OL 101	Foundation Seminar	1 1	FR ENG 1100	Study and Careers in Engineering and Computing	1
	Maximum Free Electives	8	TIX LING TIUU	Maximum Free Electives	1
		3			C
	Maximum credit hours to be tr	ansferr	ed to Missouri S&T	degree requirements.	6
				aree must be completed at Missouri S&T	
	Missouri S&T residency requirements: T Students must receive special permission from Missouri	he last 60 l	hours of any Missouri S&T deg		