## East Central College — Missouri S&T Computer Science BS Transfer Guide Effective as of Fall 2024

	East Central College			Missouri S&T	
	Co	mmun	ication Skills		
ENG 484		_	all courses.		
ENG 101 ENG 102 or	English Composition I English Composition II or	3	ENGLISH 1120 ENGLISH 1160 or	Exposition and Argumentation Writing and Research or	3
ENG 102 01	Technical Writing	3	ENGLISH 1600	Intro to Technical Communication	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9	ladi amadaa am 10a'a	Total Hours	9
	Computer Scie		lathematics, and Scie	ence	
EGR 251 or	Data Structures (3) or	Tulto	CS 1500* or	Computational Problem Solving* (preferred) or	
EGR 221,222	C++ Program Engineers and Lab (4)		CS 1971,1981*	Intro to Programming Methodology and Lab*	
	*EGR 251 is preferred; EGR 221, 222 will be accepted in lieu of EGR 251 if necessary. A maximum of 3 hours applies to the computer science requirement. Any additional credit hours apply to degree totals as general elective credit.	3		*CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary. A maximum of 3 hours applies to the computer science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MTH 241	Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
PHY 211, 212	General Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	4
PHY 221, 222	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	4
CHM 111 or	General Chemistry I and Lab (5) or		CHEM 1310, 1319 or	General Chemistry I (4) and Lab (1) or	
BIO 111 or	General Biology and Lab (5) or		BIO SCI 1113, 1219 or	General Biology (3) and Lab (1) or	
BIO 122 or BIO 114	Principles of Biology II and Lab (5) or General Zoology (4) Satisfies the 5-hour science lecture/lab requirement. Credit hours apply to	5	BIO SCI 1223, 1229 or BIO SCI 2353, 2359	Biodiversity (3) and Lab (1) or Zoology (3) and Lab (1) Satisfies the 5-hour science lecture/lab requirement. Credit hours apply to	5
	degree totals as indicated for each course.  Total Hours	34		degree totals as indicated for each course.  Total Hours	30
			Science Electives		
Select up to	o 6 hours in engineering/science electives not already used			ent. See Approved Science and Engineering Electives at	
MTH 220		mst.edu	/undergraduate-degree/	Coloulus III (4) or	
MTH 220 or MTH 245	Analytical Geometry & Calculus III (5) or Differential Equations (3) Or other math 2000-level or higher or Any statistics 4000-level or higher Satisfies the 3-hour science lecture/lab requirement. Credit hours apply to degree totals as indicated for each course.	3	MATH 2222 or MATH 3304	Calculus III (4) or Elementary Differential Equations (3) Or other math 2000-level or higher or Any statistics 4000-level or higher Satisfies the 3-hour science lecture/lab requirement. Credit hours apply to decree totals as indicated for each course.	3
EGR 203 or	Engineering Mechanics-Statics or		CIV ENG 2200 or	Statics or	
EGR 214 or EGR 231	Engineering Mechanics-Dynamics or Intro to Circuit Theory Or other course with the equivalent of a Missouri S&T engineering designation.	3	MECH ENG 2350 or ELEC ENG 2100	Engineering Mechanics-Dynamics (2) or Circuits I Or other course with the equivalent of a Missouri S&T engineering designation.	3
Science	Any biology, chemistry, geology, or environmental	3	Science	Any biology, chemistry, geology, or environmental	3
Physics	science. Any physics excluding the equivalent of S&T PHYS	3	Physics	science. Any physics excluding the equivalent of S&T PHYS	3
1 11,0.00	2111, 2119, 2135, and 2145.  *A maximum of 6 hours applies to engineering/sr		•	2111, 2119, 2135, and 2145. urs apply to degree totals as general elective credit.	Ŭ
	Total Hours	6		Total Hours	6
		Social	Sciences		
	Select 9 credit hours to in	clude o	ne course to satisfy state re	equirement.	
CIV 202 or	European Civilization II or		HISTORY 1200 or	Modern Western Civilization or	
HST 101 or HST 102 or	US History to 1877 or		HISTORY 1300 or HISTORY 1310 or	American History to 1877 or	
PSC 102	US History Since 1877or US Government I: National and State At least one of these courses is required to satisfy a State of Missouri requirement	3	POL SCI 1200	American History Since 1877 or American Government At least one of these courses is required to satisfy state requirement.	3
ECO 102 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	_
ECO 101	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics or upper-level economics	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology or upper-level psychology	3
ACC 101 or	Fundamentals of Accouning or		BUS 1210 or	Financial Accounting or	
BUS 234	Legal Environment of Business or other approved business course; see Social Sciences Approved Electives at	3	BUS 2910	Business Law or other approved business course; see Social Sciences Approved Electives at	3
	https://cs.mst.edu/undergraduate-degree/			https://cs.mst.edu/undergraduate-degree/	
Social Science	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3	Social Science	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3
	Total Hours	9		Total Hours	9
	Hui	maniti	es and Ethics		
	Select one human	ities and	one upper-level ethics cou	ırse.	
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ART 101	Art Appreciation	3	ART 1185	Study of Film	3
MUS 101	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
THE 101 ENG 210 or	Theatre Appreciation Survey British Lit: Beginnings - 1784 or	3	THEATRE 1190 ENGLISH 1211 or	Theatre via Video British Literature I: The Beginnings to 1800 or	3
ENG 221 or	Survey American Lit: Beginnings - 1764 or Survey American Lit: Beginnings - 1865 or		ENGLISH 1211 or	American Literature: 1600 to 1865 or	
ENG 124 or	World Literature I or	3	ENGLISH 1231 or	World Literature I or	3
ENG 214 or	Women's Literature or		ENGLISH 2242 or	Literature by Women or	
ENG 215	African-American Literature	^	ENGLISH 2245	African American Literature	^
Foreign Language	Any foreign language	3	Foreign Language	Any foreign language	3
Humanities	Other humanities elective from the list of approved courses at https://cs.mst.edu/undergraduate-degree/	3	Humanities	Other humanities elective from the list of approved courses at https://cs.mst.edu/undergraduate-degree/	3
	Total Hours	6		Total Hours	6
			ree Requirements		
	Select additional courses to total	•			
COL 101	Foundation Seminar Maximum Free Electives	1 8	FR ENG 1100 Electives	Study and Careers in Engineering and Computing	1 8
Electives	IVIAAITIUITI FIEE EIECUVES	0	Liectives	Maximum Free Electives	o
	Maximum credit hours to be transfe  Missouri S&T residency requirements: The last 6  Students must receive special permission from Missouri S&T to	0 hours	of any Missouri S&T degree mus	st be completed at Missouri S&T.	68
	Students are not required to complete	all cours	es on this guide before transfer	ring to Missouri S&T.	
This transfer guide is	published by Missouri University of Science and Technology and is in effect as of Fall 202-	4. Further in	ormation or updates are available from Mi	issouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-09:	38.