St. Louis Community College — Missouri S&T

Computer Science BS Transfer Guide Effective as of Fall 2023

St Louis	Community	College
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Missouri S&T

	St. Louis Community College Missouri S&T				
	Communic	ation	Skills and (Take all o	courses)	
ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 COM 107	College Composition II Public Speaking	3	ENGLISH 1160 SPMS 1185	Writing and Research Principles of Speech	3
COM 107	Total Hours	9	OF MICE 1100	Total Hours	9
	Computer Science,	Mather	natics, and Science ((Take all courses)	
MTH 212	Discrete Mathematics	3	CS 1200	Discrete Mathematics for Computer Science	3
ESC 101 or IS 167 or	Scientific Computer Programming (3) or C++ Programming I (4) or		CS 1500* or CS 1500* or	Computational Problem Solving* (preferred) or Computational Problem Solving* (preferred) or	
IS 187 or	Java Programming I (4) or		CS 1500* or	Computational Problem Solving* (preferred) or	
IS 280 or IS 267	Python (3) or C++ Programming II (4)	3	CS 1500* or CS 1971,1981*	Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab*	3
13 207	CTT Flogramming ii (4)		03 1971,1901	*CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if	
MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	necessary. Calculus I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
MTH 215	Linear Algebra	3	MATH 3108	Linear Algebra	3
PHY 122 PHY 223	Engineering Physics I Engineering Physics II	5 5	PHYSICS 1135 PHYSICS 2135	Engineering Physics I	4
CHM 105 or	General Chemistry I (5) or	3	CHEM 1310, 1319 or	Engineering Physics II General Chemistry I (4) and Lab (1) or	-
BIO 111 or	Introductory Biology I (4) or		BIO SCI 1113, 1219 or	General Biology (3) and Lab (1) or	
BIO 141 or	Principles of Biology I (5) or	4	BIO SCI 1223, 1229 or BIO SCI 2383, 2389 or	Biodiversity (3) and Lab (1) or Plant Biology (3) and Lab (1) or	4
BIO 124 or GEO 111	General Botany I (4) or Physical Geology		GEOLOGY 1120, 1129	Evolution of the Earth (3) and Lab (1)	
020	Total Hours	33		Satisfies science lecture/lab requirement. Total Hours	29
			ing/Science Electives		20
Select up t				sfy another degree requirement. See Appro	ved
	Science and Engineering El	ective	s at https://cs.mst.ed	lu/undergraduate-degree/	
MTH 230 or MTH 240	Analytical Geometry and Calculus III or Differential Equations		MATH 2222 or MATH 3304	Calculus III or	
MTH 240	Or other math 2000-level or higher or	5	MATH 3304	Elementary Differential Equations Or other math 2000-level or higher or	4
	Any statistics 4000-level or higher			Any statistics 4000-level or higher	
ESC 203 or ESC 204 or	Engineering Statics or Engineering Dynamics or		CIV ENG 2200 or MECH ENG 2350 or	Statics or Engineering Mechanics-Dynamics (2) or	
ESC 205 or	Mechanics of Materials or		CIV ENG 2210 or	Mechanics of Materials or	
ESC 207 or ESC 200	Engineering Thermodynamics or	3	MECH ENG 2519 or ELEC ENG 2100	Thermodynamics or Circuits I	3
ESC 200	Engineering Circuits I Or other course with the equivalent of a Missouri		ELEC ENG 2100	Or other course with the equivalent of a Missouri S&T	
	S&T engineering designation.			engineering designation.	
	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	3		Any physics excluding the equivalent of S&T PHYS	3
	2111, 2119, 2135, and 2145.	6		2111, 2119, 2135, and 2145.	6
	Total Hours Social Sciences (Select 9 credit		to include one cours	Total Hours	ь
HST 128 or	Western Civilization 1500 to Present or	Iours	HISTORY 1200 or	Modern Western Civilization or	
HST 101 or	US History to 1865 or		HISTORY 1300 or	American History to 1877 or	
HST 102 or PSC 101	US History 1865 to Present or Intro to American Politics	3	HISTORY 1310 or POL SCI 1200	American History Since 1877 or American Government	3
. 66 .6.	(At least one of these courses is required to satisfy state requirement)		. 02 001 1200	(At least one of these courses is required to satisfy state requirement)	
ECO 152 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 151	Principles of Macroeconomics (or upper-level economics)	3	ECON 1200	Principles of Macroeconomics (or upper-level economics)	3
PSY 200	General Psychology (or upper-level psychology)	3	PSYCH 1101	General Psychology (or upper-level psychology)	3
MGT 204 or ACC 110 or	Business Organization & Management (3) or Financial Accounting I (4) or		BUS 1110 or BUS 1210 or	Intro to Management and Entrepreneurship or Financial Accounting or	
BLW 101	Business Law I (3)	3	BUS 2910	Business Law	3
	(or other approved business course; see Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/)	Ü		(or other approved business course; see Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/)	Ü
				,	
	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/ Total Hours	9		Total Hours	9
	Total Hours		nities and Ethics	Total Hours	3
	(Select one	huma	nities and one ethics	s course)	
PHL 112	Business Ethics	3	PHILOS 3235	Business Ethics At least one ethics course is required.	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
MCM 130	Film Appreciation	3	ART 1185	Study of Film	3
MUS 114 THT 101	Music Appreciation Intro to Theatre	3	MUS 1150 THEATRE 1190	Music Understanding and Appreciation Theatre via Video	3
ENG 210 or	British Literature I or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 204 or ENG 231 or	American Literature I or World Literature or	3	ENGLISH 1221 or ENGLISH 1231 or	American Literature: 1600 to 1865 or World Literature I or	3
ENG 216 or	Women in Literature or	J	ENGLISH 2242 or	Literature by Women or	Ü
ENG 217 Foreign Language	Major Black Writers	3	ENGLISH 2245	Any foreign language	3
i oreigii 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	
	courses.			courses.	3
	Total Hours	6 itional	Degree Requirement	Total Hours	6
	Select additional courses to tota				
GE 121	Principles of Engineering	3	FR ENG 1100	Study and Careers in Engineering and Computing	1
	Maximum Free Electives	8		Maximum Free Electives	8
	Maximo and distribution to be	n of	d to Missauri COT 1	anna vandrama-t-	00
	Maximum credit hours to be tra			•	68
	Missouri S&T residency requirements: The Students must receive special permission from Missouri S	&T to app	ly more than the maximum cree	dit hours listed above toward the Missouri S&T degree.	
	Students are not required to con				

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938