Metropolitan Community College — Missouri S&T

Computer Science BS Transfer Guide

Effective as of Fall 2023

Metropolitan Community College			Missouri S&T		
Communication Skills and (Take all courses)					
ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3	ENGLISH 1160	Writing and Research	3
COMM 100	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
Computer Science, Mathematics, and Science (Take all courses)					
MATH 141	Discrete Structures for Comp Sci I	3	CS 1200	Discrete Mathematics for Computer Science	3
CSIS 271 or CSIS 123 or CSIS 223	Data Structures and Algorithm Analysis or Programming Fundamentals or Object-Oriented Programming with C++ or	3	CS 1500* or CS 1971,1981*	Computational Problem Solving* *(preferred)* or 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 180	Analytic Geometry and Calculus	5	MATH 1214	Calculus I	4
MATH 190	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
ENGR 215	Engineering Statistics	3	STAT 3115	Engineering Statistics	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 111 or BIOL 101 or BIOL 106 or BIOL 104 or GEOL 102	General College Chemistry I or General Biology or General Zoology or General Botany or Historical Geology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 2353, 2359 or BIO SCI 2383, 2389 or GEOLOGY 1120, 1129	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or Zoology (3) and Lab (1) or Plant Biology (3) and Lab (1) or Evolution of the Earth (3) and Lab (1) Satisfies science lecture/lab requirement.	4-5
	Total Hours	34		Total Hours	38
Engineering/Science Electives **Select up to 6 hours in engineering/science electives not already used to satisfy another degree requirement. See Approved Science and Engineering Electives at https://cs.mst.edu/undergraduate-degree/**					
MATH 210 or MATH 230	Analytic Geometry & Calculus III or Differential Equations	4	MATH 2222 or MATH 3304	Calculus III or Elementary Differential Equations	4
ENGR 229 or ENGR 230 or ENGR 240 or ENGR 222	Statics or Dynamics or Mechanics of Materials or Thermodynamics	3	CIV ENG 2200 or MECH ENG 2350 or CIV ENG 2210 or MECH ENG 2519	Statics or Engineering Mechanics-Dynamics (2) or Mechanics of Materials or Thermodynamics (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 hours to include one course to satisfy state requirement)					
HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
ECON 211 or ECON 210	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics (or upper-level economics)	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology (or upper-level psychology)	3
BUSN 200 or ACCT 101 or BUSN 270	Business Management or Accounting Principles I or Legal Environment of Business	3	BUS 1110 or BUS 1210 or BUS 2910	Intro to Management and Entrepreneurship or Financial Accounting or Business Law (or other approved business course; see Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/)	3
	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3		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
Humanities and Ethics **(Select one humanities and one ethics course)**					
PHIL 100	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
COMM 128	Introduction to Film	3	ART 1185	Study of Film	3
MUSI 108	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
SPDR 106	Theater Appreciation	3	THEATRE 1190	Theatre via Video	3
ENGL 220 or ENGL 222 or ENGL 150 or ENGL 268 or ENGL 260	British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature	3
Foreign Language	Any foreign language	3	Foreign Language	Any foreign language	3
	See your advisor for course options			Other humanities elective from the list of approved courses.	3
	Total Hours	6		Total Hours	6
Additional Degree Requirements **Select additional courses to total up to the maximum transfer credit hours shown below.**					
ENGR 101	Introduction to the Profession	1	FR ENG 1100	Study and Careers in Engineering and Computing	1
	Maximum Free Electives	8		Maximum Free Electives	8

Maximum credit hours to be transferred to Missouri S&T degree requirements. 68

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.

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.