

# Metropolitan Community Colleges — Missouri S&T

## Computer Science BS Transfer Guide

Effective as of Fall 2020

### Metropolitan Community Colleges

### 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			Total Hours		
9			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 or Object-Oriented Programming with C++	3
MATH 180	Analytic Geometry and Calculus	5	MATH 1214	Calculus for Engineers I	4
MATH 190	Analytic Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
20			22		

#### 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 <small>(At least one of these courses is required to satisfy state requirement)</small>	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 <small>(At least one of these courses is required to satisfy state requirement)</small>	3
ECON 211 or ECON 210	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3
<i>See your advisor for course options</i>			Other economics, history, political science, sociology, psychology elective.		
Total Hours			Total Hours		
9			9		

#### Literature and Philosophy/Ethics (Select 6 credit hours to include at least one literature course and one philosophy/ethics course)

ENGL 220	British Literature to 1750	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENGL 222	American Literature I	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENGL 262 or ENGL 268	Women's Lives and Autobiography or Women's Literature	3	ENGLISH 2242	Literature by Women	3
ENGL 260	African-American Literature	3	ENGLISH 2245	African American Literature	3
PHIL 100	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
<i>See your advisor for course options</i>			Other literature elective		
<i>See your advisor for course options</i>			Other philosophy/ethics elective		
Total Hours			Total Hours		
6			6		

#### Additional Degree Requirements (Select additional hours up to the transferable maximum below.)

ENGR 101	Introduction to the Profession	1	FR ENG 1100	Study and Careers in Engineering and Computing	1
MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus with Analytic Geometry III <small>(Not required for Computer Science BS. Will transfer as science/engineering elective)</small>	4
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
CHEM 111 or BIOL 101 or GEOL 101	General College Chemistry I or General Biology or General Geology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219 or GEOLOGY 1110	General Chemistry I and Lab or General Biology and Lab or Physical and Environmental Geology <small>(Applies to S&amp;T degree as science/engineering elective)</small>	5

#### 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.