

# St. Louis Community Colleges — Missouri S&T

## Computer Science BS Transfer Guide

Effective as of Fall 2020

### St. Louis Community Colleges

### Missouri S&T

#### Communication Skills and (Take all courses)

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	College Composition II	3	ENGLISH 1160	Writing and Research	3
COM 107	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

#### Computer Science, Mathematics, and Science (Take all courses)

MTH 212	Discrete Mathematics	3	CS 1200	Discrete Mathematics for Computer Science	3
IS 167 or IS 256 or ESC 101 or IS 275	C++ Programming I or C++ Programming or Scientific Computer Programming or Advanced C++ Programming	3	CS 1500 or CS 1971,1981	Computational Problem Solving or Intro to Programming Methodology and Lab	3
MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
PHY 122	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4

\*Students are recommended to take CS 1570, 1580, and 1575 the last semester before transferring to Missouri S&T, if possible. CS 1580 will be waived for students who take the equivalent of CS 1570 at their transfer college.

Total Hours 20

Total Hours 22

#### Social Sciences (Select 9 credit hours to include one course to satisfy state requirement)

HST 128 or HST 101 or HST 102 or PSC 101	Western Civilization 1500 to Present or US History to 1865 or US History 1865 to Present or Intro 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
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 200	General Psychology Other economics, history, political science, sociology, psychology elective.	3	PSYCH 1101	General Psychology Other economics, history, political science, sociology, psychology elective.	3
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)

ENG 210	British Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 204	American Literature I	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENG 231	World Literature	3	ENGLISH 1231	World Literature I	3
ENG 216	Women in Literature	3	ENGLISH 2242	Literature by Women	3
ENG 217	Major Black Writers	3	ENGLISH 2245	African American Literature	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
	Other literature elective			Other literature elective	
	Other philosophy/ethics elective			Other philosophy/ethics elective	
Total Hours			Total Hours		
6			6		

#### Additional Degree Requirements

##### (Select additional credit hours up to the maximum transferable credits shown below.)

GE 121	Principles of Engineering	3	FR ENG 1100	Study and Careers in Engineering and Computing	1
MTH 230	Analytical Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III <small>(Not required for Computer Science BS. Will transfer as science/engineering elective)</small>	4
MTH 215	Linear Algebra	3	MATH 3108	Linear Algebra	3
CHM 105 or BIO 140 or GEO 111	General Chemistry I or Principles of Biology I or Physical 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.