

St. Charles Community College — Missouri S&T

Computer Science BS Transfer Guide

Effective as of Fall 2017

St. Charles Community College

Missouri S&T

Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
SPE 101	Oral Communications	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	4
PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
20			16		

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

HIS 101 or HIS 102 or HIS 146 or POL 101	US History to 1877 or US History Since 1877 or Western Civilization of Modern Europe or American Government	3	(At least one of these courses is required to satisfy state requirement)	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	3	(At least one of these courses is required to satisfy state requirement)
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
PSY 101	Introduction to Psychology	3		PSYCH 1101	General Psychology	3	
<i>See your advisor for course options</i>				<i>Other economics, history, political science, sociology, psychology elective.</i>			
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)

LIT 250	English Literature Before 1800	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
LIT 210	American Literature From 1620 - 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
<i>See your advisor for course options</i>				<i>Other literature elective</i>	
<i>See your advisor for course options</i>				<i>Other philosophy/ethics elective</i>	
Total Hours			Total Hours		
6			6		

Additional Degree Requirements (Select up to 21 hours)

MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus with Analytic Geometry III <small>(Not required for Computer Science BS. Will transfer as science/engineering elective)</small>	4
MAT 242	Elementary Linear Algebra	3	MATH 3108	Linear Algebra	3
MAT 215	Probability Theory	4	STAT 3115	Engineering Statistics	3
CHM 115 or BIO 150	General Chemistry I and Lab or General Biology I	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab <small>(Applies to S&T degree as science elective)</small>	5
CPT 186	Object Oriented Programming C++	3	CS 1570 (1580)*	Intro to Programming	3

*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 21

Total Hours 21

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.