

St. Louis Community College — Missouri S&T

Computer Science BS Transfer Guide

Effective as of Fall 2017

St. Louis Community College

Missouri S&T

Communication Skills (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 <small>(Required for AA degree)</small>	3	SPMS 1185	Principles of Speech	3
Total Hours		9	Total Hours		9

Mathematics and Science (Take all courses)

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
Total Hours		20	Total Hours		16

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 Tradition II or American History I or American History II 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
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 200	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		9	Total Hours		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 Before 1800	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 204	American Literature Before 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>			Other literature elective		
<i>See your advisor for course options</i>			Other philosophy/ethics elective		
Total Hours		6	Total Hours		6

Additional Degree Requirements (Select up to 21 hours)

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	General Chemistry I or Principles of 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
ESC 101 or IS 256	Scientific Computer Programming or C++ Object-Oriented Programing	3	CS 1570*	Intro to Programming	3
IS 275	Advanced C++ Programming	3	CS 1575*	Data Structures	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

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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.