

Johnson County Community College — Missouri S&T

Computer Science BS Transfer Guide Effective as of Fall 2017

Partner School

Missouri S&T

Communication Skills (Take all courses)

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
SPD 121	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			9		
Total Hours			9		

Mathematics and Science (Take all courses)

MATH 241 & MATH 242	Calculus I and Calculus II	10	MATH 1214 & MATH 1215	Calculus for Engineers I and Calculus II for Engineers	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			20		
Total Hours			12		

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

HIST 126 or HIST 140 or HIST 141 or POLS 122 or POLS 124	Modern Western Civilization or U.S. History to 1877 or U.S. History since 1877 or Political Science or American National Government (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 231 or ECON 230	Economics II or Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSYC 130	Introduction to 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)

ENGL 236	British Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
PHIL 121	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
<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)

MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III (Not required for Computer Science BS. Will transfer as science/engineering elective)	4
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra	3
CHEM 122 or CHEM 124,125 or BIOL 121	Principles of Chemistry or General Chemistry I Lecture and Lab or Introductory Biology for non majors	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab (Applies to S&T degree as science elective)	5
CS 235	Object-Oriented Programming / C++	4	CS 1570, 1580*	Intro to Programming	3
CS 250	Basic Data Structures using C++	4	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.

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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.