

Ozarks Technical Community College — Missouri S&T

Computer Science BS Transfer Guide

Effective as of Fall 2017

Ozarks Technical Community College

Missouri S&T

Communication Skills (Take all courses)

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition II	3	ENGLISH 1160	Writing and Research	3
COM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			9	Total Hours	
			9		

Mathematics and Science (Take all courses)

MTH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 141	Analytical Geometry/Calculus II	5	MATH 1215	Calculus for Engineers II	4
PHY 220	Physics for Engineers and Scientists I	5	PHYSICS 1135	Engineering Physics I	4
PHY 222	Physics for Engineers and Scientists II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			20	Total Hours	
			20		

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

HST 102 or HST 120 or HST 130 or PLS 101	Western Civilization 1350 to Present or First American to War or Reconstruction to the Present or American Government 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 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 110	Intro 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			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 240	British Literature Beginnings - 1790	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 220	American Lit Beginnings - 1870	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			6	Total Hours	
			6		

Additional Degree Requirements (Select up to 21 hours)

MTH 240	Analytical Geometry/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 230	Linear Algebra	3	MATH 3108	Linear Algebra	3
CHM 160, 161 or BIO 160	General Chemistry or General Biology <small>(Required for AA degree)</small>	5 or 4	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
CIT 145	C++ Programming II	3	CS 1570, 1580*	Intro to Programming	3
CIS 210	Data Structures	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

Total Hours 21

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.