

East Central College — Missouri S&T

Computer Science BS Transfer Guide

Effective as of Fall 2017

East Central 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
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus for Engineers II	4
PHY 211, 212	General Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	4
PHY 221, 222	General Physics II and Lab	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)

CIV 202 or HST 101 or HST 102 or PSC 102	European Civilization II or US History to 1865 or US History 1865-1945 or US Government National and State	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 102 or ECO 101 PSY 101	Principles of Microeconomics or Principles of Macroeconomics General Psychology	3 3 3	ECON 1100 or ECON 1200 PSYCH 1101	Principles of Microeconomics or Principles of Macroeconomics General Psychology Other economics, history, political science, sociology, psychology elective.	3 3 3
Total Hours			Total Hours		
9			9		

See your advisor for course options

Literature and Philosophy/Ethics

(Select 6 credit hours to include at least one literature course and one philosophy/ethics course)

ENG 210	Survey British Lit: Beginnings to 1784	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 221	Survey American Lit: Colonial to 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
Total Hours			Total Hours		
6			6		

See your advisor for course options

Additional Degree Requirements (Select up to 21 hours)

MTH 220	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 241	Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
CHM 111 or BIO 111	General Chemistry I and Lab or General Biology I and Lab	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
EGR 221, 222	C++ Program Engineers	3	CS 1570, 1580*	Intro to Programming	3
EGR 251	Data Structures	3	CS 1575*	Data Structures	3
Total Hours			Total Hours		
21			21		

*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.

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.