

Johnson County Community College — Missouri S&T

Applied Mathematics 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 (Required for AA degree)	3	SPMS 1185	Principles of Speech (Will apply to B.S. degree as free elective)	3
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	8
MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	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			25		

Social Sciences (Take all courses)

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 Other economics, history, political science, sociology, psychology elective	3
<i>See your advisor for course options</i>					
Total Hours			6		

Humanities (Take all courses)

<i>See your advisor for course options</i>		3	Literature Elective		3
Foreign Language	Elementary I and Elementary II in a single foreign language (Must take two courses in: German, Spanish, French, Russian, Arabic, Chinese or Japanese)	6	Foreign Language (2 semesters of same language)		6
Total Hours			9		

Additional Degree Requirements (Select up to 17 hours)

MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
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 or 4	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CS 200 or CS 235	Concepts of Programming Algorithms/C++ or Object Oriented Programming/C++	4	CS 1971, 1981 or CS 1570, 1580	Intro to Programming Method and Lab (C++) or Intro to Programming and Lab (C++)	3 4
Total Hours			17		

Maximum credit hours to be transferred to Missouri S&T degree requirements.

72

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.