

Metropolitan Community Colleges — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2017

Metropolitan Community Colleges

Missouri S&T

Communication Skills (Take all courses)

ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3	ENGLISH 1160	Writing and Research	3
COMM 100	Fundamentals of Speech (Required for AA degree)	3	SPMS 1185	Principles of Speech (Will apply to B.S. degree as free elective)	3
		Total Hours	9		
				Total Hours	9

Mathematics and Science (Take all courses)

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus for Engineers I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus for Engineers II	4
MATH 210	Analytic Geometry & Calculus III	4	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	24		
				Total Hours	20

Social Sciences (Take all courses)

HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics (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 211 or ECON 210	Microeconomics or Macroeconomics	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>		3
		Total Hours	6		
				Total Hours	9

Humanities (Take all courses)

		3	<i>See your advisor for course options</i>		
Foreign Language (2 semesters of same language)		6	Literature Elective		3
			Foreign Language (2 semesters of same language)		6
		Total Hours	9		
				Total Hours	9

Additional Degree Requirements (Select up to 17 hours)

MATH 230	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
CHEM 111 or BIOL 101	General College Chemistry I or General Biology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CSIS 155 or CSIS 135 or CSIS 123	C++ Programming or Fortran Programming or Programming Fundamentals C++	3	CS 1570, 1580 or CS 1970, 1980 or CS 1971, 1981	Intro to Programming or Basic Scientific Programming and Lab or Intro to Programming Methodology and Lab	3
		Total Hours	17		
				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.