

Ozarks Technical Community College — Missouri S&T

Applied Mathematics 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 (required for AA degree)	3	ENGLISH 1160	Writing and Research	3
COM 105	Public Speaking	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)

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
MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	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			25		
				Total Hours	
			20		

Social Sciences (Take all courses)

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 Government Politics	American 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
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 Other economics, history, political science, sociology, psychology elective	3 3
		<i>See your advisor for course options</i>			
Total Hours			6		
				Total Hours	
			9		

Humanities (Take all courses)

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

Additional Degree Requirements (Select up to 17 hours)

MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 230	Linear Algebra	3	MATH 3108	Linear Algebra	3
CHM 160, 161 or BIO 160	General Chemistry or General Biology	5 or 4	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CIT 145 or CIT 140	C++ Programming II or C++ Programming I	3	CS 1570, 1580 or CS 1971, 1981	Intro to Programming 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.