

Crowder College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

Crowder College

Missouri S&T

English and Communication Skills (Take all courses)

ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation	3		
ENGL 102 or ENGL 203	Advanced Englished Compoition or Technical Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3		
COMM 104	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3		
		Total Hours	6			Total Hours	6

Humanities

(Select 9 hours to include at least one literature.)

ENGL 240 or ENGL 230 or ENGL 222 or	British Literature I or Survey of American Literature I or World Literature I (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective)	3
PSYC 101	General Psychology or other psychology course	3	PSYCH 1101	General Psychology or other psychology course	3
PHIL 101	Intro to Western Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ART 101	Art Appreciation	3	ART 118	Art Appreciation or other art	3
MUSC 101	Music Appreciation	3	MUS 1150	Music Understanding and Appreciation or other music	3
TA 205	Intro to Theatre	3	THEATRE 1190	Theatre via Video or other theater	3
	Any foreign language			Any foreign language	3
	Any fine art, English, music, philosophy or speech.	3		Any fine art, English, music, philosophy or speech.	3
	Any history, political science, or psychology.	3		Any history, political science, or psychology.	3
Total Hours 6			Total Hours 9		

Social Sciences (Take all courses)

HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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 202* or ECON 201*	Principles of Economics II (Micro)* or Principles of Economics I (Macro)* *Students pursuing the Actuarial Science emphasis take BOTH ECON 202 and 201 (6 hours econ for a total of 9 hours social sciences).	3	ECON 1100* or ECON 1200*	Principles of Microeconomics* or Principles of Macroeconomics* *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	3
Total Hours		6	Total Hours		6

Mathematics and Science (Take all courses)

MATH 150, 160	Calculus I Part I and II	5	MATH 1214	Calculus I	4
MATH 201	Calculus II	5	MATH 1215	Calculus II	4
MATH 202	Calculus III	5	MATH 2222	Calculus III	4
MATH 210	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHYS 190	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 210	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
COMP 111	Intro to Computer Science	4	CS 1500	Computational Problem Solving	3
CHEM 111 or BIOL 101	General Chemistry I (5) or General Biology I (4)	4-5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	4-5
Total Hours			Total Hours 26		

Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3	Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3
Maximum Free Electives	14	Maximum Free Electives	14

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

60

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.