Jefferson College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

Jefferson College			Missouri S&T		
English and Communication Skills (Take all courses)					
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
Humanities (Select 9 hours to include at least one literature.)					
ENG 130 or ENG 175 or ENG 215	English Life and Literature I or American Literature I or World Literature before 1650 or other literature At least one literature course is required.	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I or American Literature 1600 to 1865 or World Literature I or other literature At least one literature course is required.	3
PSY 101	General Psychology or other psychology	3	PSYCH 1101	General Psychology or other psychology	3
PHL 102	Intro to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy (or other philosophy)	3
ART 101	Art Appreciation or other art	3	ART 118	Art Appreciation or other art	3
MUS 121	Appreciation of Music or other music	3	MUS 1150	Music Understanding and Appreciation or other music	3
SPD 120	Intro to Theatre or other theater	3	THEATRE 1190	Theatre via Video or other theater	3
	Any foreign language	3		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 sicence, or psychology.	3		Any history, political sicence, or psychology.	3
	Total Hours	9		Total Hours	9
Social Sciences (Take all courses)					
HIST 102 or HIST 103 or HIST 104 or PSC 102	Renaissance to Early Modern Europe or US History I or US History II or US and Missouri Govt. and Constitution (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
ECO 102 or ECO 101	Microeconomics or Macroeconomics *Students pursuing the Actuarial Science emphasis take BOTH ECO 101 and 102 (6 hours econ for a total of 9 hours social sciences).	3-6	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)					
MTH 180	Calculus I	5	MATH 1214	Calculus I	4
MTH 185	Calculus II	5	MATH 1215	Calculus II	4
MTH 201	Calculus III	5	MATH 2222	Calculus III	4
MTH 205	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra	3
PHY 223	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHY 224	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
CIS 155	Intro to Computer Programming	3	CS 1500	Computational Problem Solving	3
CHM 111 or BIO 101	General Chemistry I or General Biology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	4
	Total Hours	37		Total Hours	33
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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.