Jefferson College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

Jefferson College			Missouri S&T		
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
Mathematics and Science (Take all courses)					
MAT 134	College Algebra	3	MATH 1140*	College Algebra* *Required for teacher certification; not a Mathematics BS requirement.	3
MTH 133	Trigonometry	3	MATH 1160*	Trigonometry* *Required for teacher certification; not a Mathematics BS requirement.	2
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
PHY 223	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 224	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
	Total Hours	30		Total Hours	25
Social Sciences (Take all courses)					
HIST 102 or HIST 103 or HIST 104	Renaissance to Early Modern Europe or US History I or US History II	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History Since 1877	3
PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECO 102 or ECO 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
	Total Hours	12		Total Hours	12
Humanities (Take all courses)					
ART 101 or MUS 121 or SPD 120 or PHL 102	Art Appreciation or Appreciation of Music or Intro to Theatre or Intro to Philosophy	3	ART 1180 or MUSIC 1150 or THEATRE 1190 or PHILOS 1105	Art Appreciation or Music Appreciation or Theatre via Video or Self and World: Intro to Philosophy	3
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 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
	Total Hours	6		Total Hours	6
Additional Degree Requirements **Select additional courses to total up to the maximum transfer credit hours shown below.**					
MTH 205	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra	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	5
CIS 155	Intro to Computer Programming	3	CS 1500 or CS 1971,1981	Computational Problem Solving or Intro to Programming Methodology and Lab	3
Additional Courses for Teacher Certification Option (Take all courses)					
EDU 210	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDU 225	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 201	Child Psychology	3	PSYCH 3310	Developmental Psychology	3
	Total Hours	9		Total Hours	8

Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/.

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.