

# Jefferson College — Missouri S&T

## Applied Mathematics BS Transfer Guide

Effective as of Fall 2020

<u>Jefferson College</u>		<u>Missouri S&amp;T</u>			
<b>English and Communication Skills (Take all courses)</b>					
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
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
<b>Language and Communication Requirement</b>	Option 1: Foreign Language (2 semesters of same language satisfies the Language and Communication Requirement.)	6	<b>Language and Communication Requirement</b>	Option 1: Foreign Language (2 semesters of same language satisfies the Language and Communication Requirement.)	6
Option 1 or Option 2 The requirement will be satisfied by either 6 credits of Speech and Media Studies or 2 semesters of the same foreign language.	Option 2: Speech and Media Studies COM 110 Public Speaking and one additional course (6 credit hours of Speech and Media Studies satisfies the Language and Communication Requirement)		Option 1 or Option 2 The requirement will be satisfied by either 6 credits of Speech and Media Studies or 2 semesters of the same foreign language.	Option 2: Speech and Media Studies SPMS 1185 Principles of Speech and one additional course (6 credit hours of Speech and Media Studies satisfies the Language and Communication Requirement)	
Total Hours			15		
Total Hours			15		
<b>Social Sciences (Take all courses)</b>					
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 Consitution (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).	3-6
Total Hours			6-9		
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<b>Mathematics and Science (Take all courses)</b>					
MTH 180	Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 185	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 201	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
MTH 205* or MTH 172*	Differential Equations* or Linear Algebra* *Select 1 or 2 of these courses	3-6	MATH 3304* or MATH 3108*	Elementary Differential Equations* or Linear Algebra* *Select 1 or 2 of these courses	3-6
PHY 223	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 224	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
CIS 155	Intro to Computer Programming	3	CS 1971, 1981	Intro to Programming Methodology and Lab (C++)	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
	See your advisor for course options	3		Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	
Total Hours			38-41		
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<b>Maximum credit hours to be transferred to Missouri S&amp;T degree requirements.</b>				<b>68</b>	
<p style="text-align: center;">Missouri S&amp;T residency requirements: The last 60 hours of any Missouri S&amp;T degree must be completed at Missouri S&amp;T. Students must receive special permission from Missouri S&amp;T to apply more than the maximum credit hours listed above toward the Missouri S&amp;T degree. Students are not required to complete all courses on this guide before transferring to Missouri S&amp;T.</p>					
<p style="text-align: center; font-size: small;">This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2020. Further information or updates are available from Missouri S&amp;T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.</p>					