St. Louis Community College — Missouri S&T Applied Mathematics BS Transfer Guide Effective as of Fall 2025

Students are not required to complete all courses on this guide before transferring to Missouri S&I.	
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	Students are not required	•	-		
	St. Louis Community College	For all 1		Missouri S&T	
			nmunication Skills		
NG 101	College Composition I	3	I courses. ENGLISH 1120	Exposition and Argumentation	
NG 102 or	College Composition II or	0	ENGLISH 1160 or	Writing and Research or	
OM 107 or NG 103	Public Speaking or Report Writing	3	ENGLISH 3560 or SPMS 1185	Technical Writing or Principles of Speech	
		otal Hours 6		Total Hours	
	Mati		s, and Computer Science		
TU 240	Analytical Cooperatory and Calculus I		l courses.	Calculus	
TH 210 TH 220	Analytical Geometry and Calculus I Analytical Geometry and Calculus II	5 5	MATH 1214 MATH 1215	Calculus I Calculus II	
ITH 230	Analytical Geometry and Calculus III	5	MATH 2222	Calculus III	
TH 240	Differential Equations	3	MATH 3304	Elementary Differential Equations	
1TH 215 3 167 or	Linear Algebra C++ Programming I (4) or	3	MATH 3108	Linear Algebra	
3 187 or	Java Programming I (4) or	3	COMP SCI 1500	Computational Problem Solving	
280	Python (3)	otal Hours 24		Total Hours	-
			Sciences	- Ottar - Total	
	Select PHYSICS 1135 and 1 additio			I apply to this requirement.	
HY 122	Engineering Physics I required	5	PHYSICS 1135	Engineering Physics I required	
HY 223 HEM 101 or	Engineering Physics II Fundamentals of Chemistry I (5) or	5	PHYSICS 2135	Engineering Physics II	
HEM 123	Fundamentals of Forensic Chemistry (3)	3	CHEM 1301	Introductory Chemistry	
HM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	
HM 106	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	
	•	-		*CHEM 1510 is not a degree requirement, transfers as general elective credit.	
IO 111 or IO 140	Intro to Biology I (4) or Principles of Biology I (5)	4	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology and Lab or Principles of Biology and Lab	
IO 225	Genetics	5	BIO SCI 2223	Genetics	
EO 111	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology or higher geology	
		otal Hours 13		Total Hours	
	Humanities, Arts	, and Social Science	ces General Education Req	uirements	
*/		oral and Social Science	om at least two specific discipli es from at least two specific dis or POL SCI 1200 to satisfy the S	sciplines.	
			and Fine Arts		
NG 211 or	British Literature II or	elect 6 hours from at lea	ast two specific disciplines. ENGLISH 1212 or	British Literature II: 1800 to Present	
NG 204 or	American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
NG 205 or	American Literature II or		ENGLISH 1222 or	American Literature: 1865 to Present or	
:NG 231 or IST 101 * or	World Literature or US History to 1865* or	6	ENGLISH 1231 or HISTORY 1300* or	World Literature I: Beginnings to the Renaissance or American History to 1877* or	
IST 102* or	US History 1865 to Present* or	О	HISTORY 1310* or	American History Since 1877* or	
ART 100 or MUS 114 or	Art Appreciation or Music Appreciation or		ART 1180 or MUSIC 1150 or	Art Appreciation or Music Understanding and Appreciation or	
THT 101	Intro to Theatre		THEATRE 1150	Theatre for Social Change	
Sehavioral and Socia	*Satisfies the State of Missouri government requirement.			*Satisfies the State of Missouri government requirement.	S
onavioral and occid		de ECON 1100 or 1200	and from at least two specific dis	ciplines.	0
CO 152 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	
CO 151	Principles of Macroeconomics		ECON 1200	Principles of Macroeconomics	
ST 115 or ST 128* or	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present* or		HISTORY 1100 or HISTORY 1200* or	Early Western Civilization or Modern Western Civilization or	
EG 101 or	Regional Geography or		HISTORY 2110 or	World Regional Geography or	
HL 101 or HL 102 or	Intro to Philosophy or Intro to Logic or	3	PHILOS 1105 or PHILOS 1115 or	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or	
SC 101* or	Intro to American Politics* or	3	POL SCI 1200* or	American Government or	
SY 200 or	General Psychology I or		PSYCH 1101or	General Psychology or	
oreign Language	Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		Foreign Language	Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	
	, and the same of	Humanities, Arts,	and Social Sciences	•	
			3 hours.		
		Select			
	Humanities, Arts, Social Sciences Elective: Any h	nistory,		Humanities, Arts, Social Sciences Elective: Any history,	
IASS Elective	art, music, theater, English and technical commun	nistory, nication,	HASS Elective	art, music, theater, English and technical communication,	
ASS Elective		nistory, nication,			
ASS Elective	art, music, theater, English and technical commun philosophy, political science, psychology, econom	nistory, nication, 3 nics, 3	HASS Elective	art, music, theater, English and technical communication, philosophy, political science, psychology, economics,	
ASS Elective	art, music, theater, English and technical commun philosophy, political science, psychology, econom etymology, or foreign language.	istory, ication, 3 ics, 3	HASS Elective	art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	
ASS Elective	art, music, theater, English and technical commun philosophy, political science, psychology, econom etymology, or foreign language. Select additional co Technical electives in biology, business, chemistry	nistory, ication, 3 ics, 3 Additional Degrourses to total up to the y,	HASS Elective	art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language. nown below. Technical electives in biology, business, chemistry,	
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