Johnson County 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&T.

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Johnson	County	Commun	itv College

Missouri S&T

	Johnson County Community College			MISSOURI S&I	
	Engl	lish and Co	mmunication Skills		
		Take a	all courses.		
ENGL 121 or ENGL 119	Composition I (3) or College Composition I with Review (5)	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122 or	Composition II or		ENGLISH 1160 or	Writing and Research or	
ENGL 123 or	Technical Writing I or	3	ENGLISH 3560 or	Technical Writing or	3
COMS 121	Public Speaking Total Hour	rs 6	SPMS 1185	Principles of Speech Total Hours	6
			s, and Computer Science		
	mationati		all courses.		
MATH 241 and	Calculus I and	10	MATH 1214 and	Calculus I and	8
MATH 243	Calculus III	5	MATH 2222	Calculus III	4
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
MATH 246 CS 235 or	Elementary Linear Algebra Object-Oriented Programming Using C++ or	3	MATH 3108	Linear Algebra	3
CS 250	Basic Data Structures using C++	4	CS 1500	Computational Problem Solving	3
	Total Hour			Total Hours	21
			I Sciences		
	Select PHYSICS 1135 and 1 additional cour				
PHYS 220 PHYS 221	Engineering Physics I Engineering Physics II	5 5	PHYSICS 1135 PHYSICS 2135	Engineering Physics I required Engineering Physics II	4
CHEM 120	Chemistry in Society	4	CHEM 1301	Introductory Chemistry	3
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131, 132	General Chemistry II and Lab	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
	·			*CHEM 1510 is not a degree requirement, transfers as general elective credit.	
BIOL 121	Introductory Biology for Non-Majors	4	BIO SCI 1113, 1219	General Biology and Lab	4
BIOL 205	General Genetics	3	BIO SCI 2223	Genetics	3
GEOS 130	General Geology Total Hour	5 s 13	GEOLOGY 1110	Physical and Environmental Geology or higher geology Total Hours	3
			nces General Education R		
*,		Social Science	om at least two specific disci ces from at least two specific , or POL SCI 1200 to satisfy th	disciplines.	
	Select 6 h		s and Fine Arts east two specific disciplines.		
ENGL 236 or	British Literature to 1800 or	ouro montrat i	ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENGL 237 or	British Literature after 1800 or		ENGLISH 1212 or	British Literature II: 1800 to Present	
ENGL 246 or ENGL 247 or	American Literature I or American Literature II or		ENGLISH 1221 or ENGLISH 1222 or	American Literature: 1600 to 1865 or American Literature: 1865 to Present or	
ENGL 251 or	World Literature to 1620 or		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or	
HIST 140* or	US History to 1877* or	6	HISTORY 1300* or	American History to 1877* or	6
HIST 141* or MUS 121 or	US History since 1877* or Intro to Music Listening or		HISTORY 1310* or MUSIC 1150 or	American History Since 1877* or Music Understanding and Appreciation or	
MUS 126 or	Intro to World Music or		MUSIC 1150 or	Music Understanding and Appreciation or	
THEA 120	Intro to Theatre *Satisfies the State of Missouri government requirement.		THEATRE 1150	Theatre for Social Change	
	E		d Social Sciences	*Satisfies the State of Missouri government requirement.	
		CON 1100 or 1	1200 and from at least two speci	•	
ECON 231 or ECON 230	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIST 125 or	Western Civ: Ancient World to the Renaissance or		HISTORY 1100 or	Early Western Civilization or	
HIST 151 or	World History: Traditional or		HISTORY 1100 or	Early Western Civilization or	
HIST 126* or	Western Civ: Scientific Revolution to Modern Age* or		HISTORY 1200* or	Modern Western Civilization or	
GEOS 145 or	World Regional Geography or		HISTORY 2110 or	World Regional Geography or	
PHIL 121 or PHIL 124 or	Intro to Philosophy or Logic and Critical Thinking or	3	PHILOS 1105 or PHILOS 1115 or	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or	3
POLS 124* or	American National Government* or		POL SCI 1200* or	American Government or	
PSYC 130 or	Intro to Psychology or		PSYCH 1101or	General Psychology or	
Foreign 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.	
	Hum		and Social Sciences		
		Selec	et 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Add	litional Deg	ree Requirements		
		total up to the	e maximum transfer credit hours		
	Technical electives in biology, business, chemistry,			Technical electives in biology, business, chemistry,	
Technical Electives	computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical computing appropriate by addition.		Technical Electives	computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical communication, approved by advisor.	
Electives	communication approved by advisor. Free Electives		Electives	communication approved by advisor. Free Electives	
			2.0000		
	Maximum credit hours to be to			•	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.

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