Johnson County Community College — Missouri S&T Chemistry BS Transfer Guide					
	Eff	ective a	as of Fall 2023		
	Johnson County Community College			<u>Missouri S&amp;T</u>	
		tion S	kills (Take all cours		
NGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
NGL 122 or NGL 123	Composition II or Technical Writing I	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
INGL 123	<b>.</b>		ENGLISH 3500	Principles of Speech	
COMS 121	Public Speaking (if required for AA degree)	3	SPMS 1185	(Not required for the S&T degree. Applies to S&T degree as Free	3
	Total Hours	9		Elective) Total Hours	9
			ience (Take all cou		Ĵ
MATH 241 and	Calculus I and		MATH 1214 and	Calculus I and	
1ATH 242	Calculus II	10	MATH 1215	Calculus II	8
IATH 243	Calculus III	5	MATH 2222	Calculus III	4
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 and Qualitatve Analysis	5
PHYS 220 PHYS 221	Engineering Physics I Engineering Physics II	5 5	PHYSICS 1135 PHYSICS 2135	Engineering Physics I	4
113221	Total Hours	35	PH131632133	Engineering Physics II Total Hours	4 30
	Social Sciences (Select up to 6 credit h		o include one cours		
IIST 126 or	Western Civ: Scientific Revolution to Modern Age or		HISTORY 1200 or	Modern Western Civilization or	
IIST 120 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
IIST 141 or	US History since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3
OLS 124	American National Government	3	POL SCI 1200	American Government	3
	(At least one of these courses is required to satisfy state			(At least one of these courses is required to satisfy state requirement)	
	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
CON 231 or	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
CON 230	or other economics course			or other economics course	
PSYC 130	Intro to Psychology	3	PSYCH 1101	General Psychology or other psychology course	3
	Other economics, history, political science, sociology,			Other economics, history, political science, sociology,	3
	psychology elective. Total Hours	6		psychology elective. Total Hours	6
			(Select 6 hours)		0
NGL 236 or	British Literature to 1800 or	innies	ENGLISH 1211 or	Pritich Literature I: The Beginnings to 1900 or	
NGL 236 or	American Literature I or		ENGLISH 1211 OF	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or	
NGL 251 or	World Literature to 1620 or	3	ENGLISH 1231 or	World Literature I or	3
NGL 217	Literature by Women		ENGLISH 2242	Literature by Women	
	(or other literature elective)			(or other literature elective)	
/US 121 or	Intro to Music Listening or		ART 1180 or	Art Appreciation (or other art) or	-
AUS 126 or	Intro to World Music or	3	MUSIC 1150 or	Music Appreciation (or other music) or	3
HEA 120	Intro to Theatre (or other fine art, music, or theatre) Intro to Philosophy		THEATRE 1190	Theatre via Video (or other theatre) Self and World: Intro to Philosophy	
PHIL 121	(or other philosophy)	3	PHILOS 1105	(or other philosophy)	3
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	3
	Total Hours	6	De la la contra	Total Hours	6
			ree Requirements		
	Select additional courses to total up				
CHEM 220 CHEM 221	Organic Chemistry I Organic Chemistry II	5 5	CHEM 2210, 2219 CHEM 2220, 2229	Organic Chemistry I and Lab Organic Chemistry II and Lab	4
CS 235 or	с <i>;</i>	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
S 250 or	Object-Oriented Programming Using C++ or Basic Data Structures using C++ or	4	CS 1500 or	Computational Problem Solving or	3
S 200	Concepts of Programming Algorithms Using C++		CS 1971,1981	Intro to Programming Methodology and Lab (C++)	J
	Maximum credit hours to be transfe	erred to	o Missouri S&T de	gree requirements.	60
	Missouri S&T residency requirements: The last 6 Students must receive special permission from Missouri S&T to Students are not required to complete	apply mor	e than the maximum credit	hours listed above toward the Missouri S&T degree.	