## Johnson County Community College — Missouri S&T

Physics BS Transfer Guide

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				2023

	Johnson County Community College			Missouri S&T	
	Communic	ation	Skills (Take all cours	,	
ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
NGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
	Total Hours	6		Total Hours	6
	Mathematics Mathematics	and S	Science (Take all cou	irses)	
MATH 241 and	Calculus I and	10	MATH 1214 and	Calculus I and	8
1ATH 242	Calculus II		MATH 1215	Calculus II	
MATH 243	Calculus III	5	MATH 2222	Calculus III	4
CHEM 124, 125 CHEM 131	General Chemistry I and Lab	5 4	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 220	General Chemistry II Engineering Physics I	5	CHEM 1320 PHYSICS 1135	General Chemistry II Engineering Physics I	3 4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
1110 221	Total Hours	34	11110100 2100	Total Hours	28
	7.0101.7.1001.0		al Sciences	- Ottal - Found	
	Select 9 hours to include at le			the state requirement	
HIST 126 or	Western Civ: Scientific Revolution to Modern Age or	act o	HISTORY 1200 or	Modern Western Civilization or	
HST 140 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HST 141 or	US History since 1877 or	2	HISTORY 1310 or	American History Since 1877 or	2
OLS 124	American National Government	3	POL SCI 1200	American Government	3
	(At least one of these courses is required to satisfy state requirement)			(At least one of these courses is required to satisfy state requirement)	
CON 231 or	Principles of Migrosopomics or		ECON 1100 or	Principles of Microscopomics or	
ECON 231 01 ECON 230	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 01 ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
.CON 230	(or other economics)	J	LCON 1200	(or other economics)	J
PSYC 130	Intro to Psychology	3	PSYCH 1101	General Psychology (or other psychology)	3
	Social Sciences Elective: Any economics, history, political			Social Sciences Elective: Any economics, history,	
	science, sociology, psychology elective		Social Sciences	political science, sociology, psychology elective	3
	Total Hours	9		Total Hours	9
			umanities		
	Select 6 credit ho	urs to	include at least one	literature.	
PHIL 121	Intro to Philosophy (or other philosophy)	3	PHILOS 1105	Self and World: Intro to Philosophy (or other philosophy)	3
MUS 121 or	Intro to Music Listening or	3	MUS 1150	Music Understanding and Appreciation	3
MUS 126	Intro to World Music	3	MOS 1150	(or other music)	3
THEA 120	Intro to Theatre	3	THEATRE 1190	Theatre via Video (or other theater)	3
NGL 236 or	British Literature to 1800 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
NGL 246 or	American Literature I or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or	2
NGL 251 or NGL 217	World Literature to 1620 or	3	ENGLISH 1231 or	World Literature I or	3
INGL 217	Literature by Women (or other literature elective)		ENGLISH 2242	Literature by Women (or other literature elective)	
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	
	Total Hours	6		Total Hours	6
	Additio	nal D	egree Requirements		
	Select additional courses to total up	p to th	ne maximum transfei	r credit hours shown below.	
ЛАТН 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
				Linear Algebra	
//ATH 246	Elementary Linear Algebra		MATH 3108	Recommended but not required, satisfies a math/stat elective requirement.	3
CS 235 or	Object-Oriented Programming Using C++ or	4	CS 1500	Computational Problem Solving	3
CS 250	Basic Data Structures using C++				
	Maximum Free Electives	6		Maximum Free Electives	6
	Maximum credit hours to be trans	ferred	to Missouri S&T de	gree requirements.	60
	Missouri S&T residency requirements: The last			•	
	Students must receive special permission from Missouri S&T to Students are not required to comple	apply n	nore than the maximum credit I	hours listed above toward the Missouri S&T degree.	

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.