Johnson County Community College — Missouri S&T

Physics BS

Transfer Guide Effective as of Fall 2024

	Johnson County Community College			<u>Missouri S&T</u>	
	Coi	mmun	ication Skills		
		Take a	all courses.		
ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
	Total Hours	6		Total Hours	6
	Math		cs and Science		
		Take a	all courses.		
MATH 241 and MATH 242	Calculus I and Calculus II	10	MATH 1214 and MATH 1215	Calculus I and Calculus II	8
MATH 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	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) "CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.	3
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
	Total Hours	34		Total Hours	28
		Social	Sciences		
	Select 9 hours to include at le			ate requirement	
HIST 126 or	Western Civ: Scientific Revolution to Modern Age or	ouot on	HISTORY 1200 or	Modern Western Civilization or	
HIST 140 or	US History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIST 141 or	US History since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3
POLS 124	American National Government		POL SCI 1200	American Government	
E00N 004	At least one of these courses is required to satisfy state requirement.		E00N 4400	At least one of these courses is required to satisfy state requirement.	
ECON 231 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECON 230 PSYC 130	Principles of Macroeconomics or other economics Intro to Psychology or other psychology	3	ECON 1200 PSYCH 1101	Principles of Macroeconomics or other economics General Psychology or other psychology	3
	Any economics, history, political science, sociology, or			Any economics, history, political science, sociology, or	
Social Science	psychology.	3	Social Science	psychology.	3
	Total Hours	9		Total Hours	9
		Hun	nanities		
	Select 6 credit ho	ours to i	nclude at least one litera	ture.	
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 or other music	3
MUS 126 THEA 120	Intro to World Music or other music Intro to Theatre	3	THEATRE 1190	•	3
ENGL 236 or	British Literature to 1800 or	3	ENGLISH 1211 or	Theatre via Video or other theater British Literature I: The Beginnings to 1800 or	3
ENGL 246 or	American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
ENGL 251 or	World Literature to 1620 or	3	ENGLISH 1231 or	World Literature I or	3
ENGL 217	Literature by Women or other literature		ENGLISH 2242	Literature by Women or other literature	
Humanities	Other fine art, literature, or philosophy.	3	Humanities	Other fine art, literature, or philosophy.	3
	Total Hours	6		Total Hours	6
	Addition	al Deg	gree Requirements		
	Select additional courses to total u	ip to the	e maximum transfer cred	it hours shown below.	
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra Recommended but not required; satisfies a math/stat elective requirement.	3
CS 235 or CS 250	Object-Oriented Programming Using C++ or Basic Data Structures using C++	4	CS 1500	Computational Problem Solving	3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6
	Maximum credit hours to be transfe	erred t	o Missouri S&T deg	ree requirements.	60
	Missouri S&T residency requirements: The last 60 Students must receive special permission from Missouri S&T to a				

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2024. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.