

Johnson County Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

Partner School

Missouri S&T

Communication Skills (Take all courses)

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
SPD 121	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours	9		
				Total Hours	9

Mathematics and Science (Take all courses)

MATH 241 & MATH 242	Calculus I and Calculus II	10	MATH 1214 & MATH 1215	Calculus for Engineers I and Calculus II for Engineers	8
MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 122 or CHEM 124,125	Principles of Chemistry or General Chemistry I Lecture and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131	General Chemistry II Lecture	4	CHEM 1320	General Chemistry II	3
		Total Hours	34		
				Total Hours	28

Social Sciences (Take all courses)

HIST 140 or HIST 141 or HIST 126	U.S. History to 1877 or U.S. History since 1877 or Western Civilization: Readings and Discussion II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
POLS 122 or POLS 134	Political Science or American National Government	3	POL SCI 1200	American Government	3
PSYC 130	Introduction to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	9		
				Total Hours	9

Humanities (Take all courses)

MUS 121 or THEA 120	Introduction to Music Listening or Introduction to Theater <i>See your advisor for course options</i>	3	MUSIC 1150 or THEATRE 1190	Music Appreciation or Theatre Appreciation Literature Elective	3
		Total Hours	3		
				Total Hours	6

Additional Degree Requirements (Select up to 10 credit hours)

MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
BIOL 121	Introductory Biology for Non-Majors	3	BIO SCI 1113	General Biology	3
		Total Hours	12		
				Total Hours	6

Additional Courses for Teacher Certification Option (Take all courses)

EDUC 121	Introduction to Teaching	3	EDUC 1040	Perspectives in Education	2
PSYC 225	Educational Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3
PSYC 215	Child Development	3	PSYCH 3310	Developmental Psychology	3
		Total Hours	9		
				Total Hours	8

***Teacher certification notes:** Passing scores on MoGEA and MoCA are required. Students must maintain a minimum 2.75 cumulative GPA and a minimum 3.0 content GPA. Students completing this program will have a BA degree in Chemistry with secondary education teacher certification.

Maximum credit hours to be transferred to Missouri S&T degree requirements.

81

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. Students are not required to complete all courses on this guide before transferring to Missouri S&T.