Johnson County Community College — Missouri S&T
Physics BS with Secondary Education Teacher Certification Transfer Guide
Effective as of Fall 2023

Johnson County Community College				**Missouri S&T**		
Communication Skills (Take all courses)						
ENGL 121	Composition I		3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122 or ENGL 123	Composition II or Technical Writing I		3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COMS 121	Public Speaking		3	SPMS 1185	Principles of Speech	3
		Total Hours	9		Total Hours	9
Mathematics and Science (Take 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
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 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	General Chemistry II	3
		Total Hours	34		Total Hours	28
Social Sciences (Take all courses)						
HIST 126 or HIST 140 or HIST 141	Western Civ: Scientific Revolution to Modern Age or US History to 1877 or US History since 1877		3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
POLS 124	American National Government		3	POL SCI 1200	American Government	3
PSYC 130	Intro to Psychology		3	PSYCH 1101	General Psychology	3
		Total Hours	9		Total Hours	9
Humanities (Take all courses)						
MUS 121 or MUS 126 or THEA 120	Intro to Music Listening or Intro to World Music or Intro to Theatre		3	MUSIC 1150 or THEATRE 1190	Music Understanding and Appreciation or Theatre via Video	3
ENGL 236 or ENGL 246 or ENGL 251 or ENGL 217	British Literature to 1800 or American Literature I or World Literature to 1620 or Literature by Women (or other literature elective)		3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature or Literature by Women (or other literature elective)	3
		Total Hours	6		Total Hours	6
Additional Degree Requirements						
Select additional courses to total up to the maximum transfer credit hours shown below.						
MATH 254	Differential Equations		4	MATH 3304	Elementary Differential Equations	3
BIOL 121	Intro to Biology for Non-Majors		4	BIO SCI 1113	General Biology	3
ASTR 120 or ASTR 122 or GEOS 130	Fundamentals of Astronomy (3) or Astronomy (4) or General Geology (5)		3	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
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 (EDUC 2102)	Educational Psychology	3
PSYC 215	Child Development		3	PSYCH 3310	Developmental Psychology	3
		Total Hours	9		Total Hours	8

Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/.

Maximum credit hours to be transferred to Missouri S&T degree requirements.	**61**

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.