

Johnson County Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2026

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

Johnson County Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 121 or ENGL 119	Composition I (3) or College Composition I with Review (5)	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	Calculus I	5	MATH 1214	Calculus I	4
MATH 242	Calculus II	5	MATH 1215	Calculus II	4
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, 132	General Chemistry II and Lab	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
		Total Hours	35	Total Hours	
					28

*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.

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 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	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 I or Literature by Women or other literature	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
MATH 246	Elementary Linear Algebra	3	MATH 3108	Linear Algebra	3
					Applies to degree as math/stat elective.
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113, 1219*	General Biology and Lab*	3
					*BIO SCI 1219 is not a degree requirement; transfers as general elective credit.
ASTR 120 or ASTR 122 or GEOS 130	Fundamentals of Astronomy (3) or Astronomy (4) or General Geology (5)	3	PHYSICS 1505 or PHYSICS 1505, 1509* or GEOLOGY 1110	Introductory Astronomy (3) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3)	3
					Will be substituted for PHYSICS 1605. *PHYSICS 1509 is not a degree requirement; transfers as general elective credit.

Teacher Certification Requirements

Take all courses.

EDUC 121	Introduction to Teaching	3	EDUC 1074	Education in a Diverse Society	3
PSYC 225	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 215	Child Development	3	PSYCH 3310	Developmental Psychology	3
		Total Hours	9	Total Hours	
					9

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2026.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer@mst.edu, transfer@mst.edu, or 800-522-0938.