

Metropolitan 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.

Metropolitan Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or ENGL 215	Composition and Reading II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COMM 100	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
		Total Hours	9		
				Total Hours	9

Mathematics and Science

Take all courses.

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MATH 210	Analytic Geometry & Calculus III	4	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 111	General College Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	General College Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
			*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.		
Total Hours		34	Total Hours		28

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

Social Sciences

Take all courses.

HIST 120 or	United States History to 1865 or		HISTORY 1300 or	American History to 1877 or	
HIST 121 or	United States History since 1865 or	3	HISTORY 1310 or	American History Since 1877 or	3
HIST 134	Modern Western Civilization		HISTORY 1200	Modern Western Civilization	
POLS 136	Intro to U.S. National Politics	3	POL SCI 1200	American Government	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours		9	Total Hours		9

Humanities

Take all courses.

ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ENGL 220 or ENGL 222 or ENGL 254 or ENGL 268 or ENGL 260	British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature Or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature 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 230	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIOL 101 or BIOL 123	General Biology (5) or General Biology for Majors * (4)	4	BIO SCI 1113, 1219 or BIO SCI 1213,* 1219	General Biology and Lab*or Principles of Biology* and Lab*	3
PHYS 106 or GEOL 101	General Astronomy or Physical Geology	4	PHYSICS 1505 or GEOLOGY 1110*	Introductory Astronomy or Physical and Environmental Geology*	3

*BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, will transfer as general elective credit.

*Will be substituted for PHYSICS 1505.

Teacher Certification Requirements

Take all courses.

EDUC 100	Introduction to Education	2	EDUC 1074	Education in a Diverse Society	3		
EDUC 201	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDUC 270	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSYC 241	Human Development	4	PSYCH 3310	Developmental Psychology	3		
EDUC 285	Education of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3		
		Total Hours	15			Total Hours	13

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.

must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

required to complete all courses on this guide before transferring to Missouri S&T.

Students
Students are not

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.