

State Fair Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

State Fair Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3	
ENGL 102 or ENGL 112	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3	
COM 101	Public Speaking	3	SPMS 1185	Principles of Speech	3	
		Total Hours	9	Total Hours		9

Mathematics and Science

Take all courses.

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MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4	
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4	
MATH 132	Calculus and Analytic Geometry III	5	MATH 2222	Calculus III	4	
PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4	
PHYS 119	General Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4	
CHEM 123	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5	
CHEM 124	General Chemistry II with 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 101 or		US History Before 1877 or	HISTORY 1300 or		American History to 1877 or		
HIST 102 or		US History Since 1877 or	3	HISTORY 1310 or	American History Since 1877 or	3	
HIST 109		World Civilization After 1500		HISTORY 1200	Modern Western Civilization		
POLS 101		American/National Government	3	POL SCI 1200	American Government	3	
PSY 101		General Psychology	3	PSYCH 1101	General Psychology	3	
			Total Hours	9		Total Hours	9

Humanities

Take all courses.

ART 101 or MUS 101 or THEA 107	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3		
LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I 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 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 112 or BIO 125	Principles of Biology with Lab or General Biology (4) MOTR BIOL 150L	5	BIO SCI 1113, 1219 or BIO SCI 1213,* 1219	General Biology and Lab*or Principles of Biology* and Lab* MOTR BIOL 150L	3
EASC 120 or EASC 118	Intro to Astronomy or Environmental Geology	3	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 1605.

Teacher Certification Requirements

Take all courses.

EDUC 209	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3		
EDUC 205	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDUC 220	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3		
EDUC 228	Education of Exceptional Learners Pre K-12	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