

State Fair Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

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			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	4
MATH 132	Calculus and Analytic Geometry III	5	MATH 2222	Calculus with Analytic Geometry 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)* <small>Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.</small>	3
Total Hours			Total Hours		
35			28		

Social Sciences (Take all courses)

HIST 101 or HIST 102 or HIST 109	US History Before 1877 or US History Since 1877 or World Civilization After 1500	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
POLS 101	American/National Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			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 elective)	3	ENGLISH 1231	World Literature I or American Literature Elective or British Literature Elective (or other literature elective)	3
Total Hours			Total Hours		
6			6		

Additional Degree Requirements (Select up to 10 credit hours)

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 125	Biology I with Lab	5	BIO SCI 1113, 1219*	General Biology (3) and Lab* (2) <small>(Transfers as required science elective) *Note: BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit.</small>	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
Total Hours			Total Hours		
10			9		

Additional Courses for Teacher Certification Option (Take all courses)

EDUC 209	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDUC 220	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
EDUC 228	Education of Exceptional Learners Pre K-12	3	PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			Total Hours		
12			11		

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BS in Physics.

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

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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.