

State Fair Community College — Missouri S&T

Physics BS 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	English Composition II	3	ENGLISH 1160	Writing and Research	3
COM 101	Public Speaking (if required for AA degree)	3	SPMS 1185	Principles of Speech (Not required for S&T degree. Transfers as free elective)	3
Total Hours					9
					Total Hours
					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
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
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
Total Hours					35
					Total Hours
					28

Social Sciences (Select 9 hours)

HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3
Total Hours					9
					Total Hours
					9
<i>See your advisor for course options</i>			Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
Total Hours					9

Humanities (Select 6 credit hours to include one literature and one additional humanities)

LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature <small>(or other literature elective)</small>	3	ENGLISH 1231	World Literature I or American Literature Elective or British Literature Elective <small>(or other literature elective)</small>	3
PHIL 101	Introduction to Philosophy <i>See your advisor for course options</i>	3	PHILOS 1105	Intro to Philosophy Other fine art, literature, or philosophy elective	3
Total Hours					6
					Total Hours
					6

Additional Degree Requirements (Select up to 12 hours)

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
CIS 155	Programming in C#	3	CS 1500	Computational Problem Solving	3
BIO 125	Biology I with Lab <small>(if required for AA degree)</small>	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

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.