State Fair Community College — Missouri S&T
Physics BS
Transfer Guide Effective as of Fall 2025

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

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 or ENGLISH 3560	Writing and Research or Technical Writing	3
	Total Hours	6		Total Hours	6
Mathematics and Science					
Take all courses.					
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
CHEM 123	General Chemistry I with Lab	4	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) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
PHYS 211	Engineering Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 212	Engineering Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
	Total Hours	34		Total Hours	28

Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include
6 hours Humanities and Fine Arts from at least two specific disciplines and
6 hours Behavioral and Social Sciences from at least two specific disciplines.
*At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.

State Fair Community College			Missouri S&T		
Humanities and Fine Arts					
Select 6 hours from at least two specific disciplines and at least one literature course.					
LIT 109 or LIT 107 or LIT 112	British Literature or American Literature or World 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	3
HIST 101* or **HIST 102*** or ART 101 or MUS 101 or THEA 107	**US History Before 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Intro to Theatre *Satisfies the State of Missouri government requirement.*	3	**HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1150	**American History to 1877** or **American History Since 1877** or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.*	3
Behavioral and Social Sciences					
Select 6 hours from at least two specific disciplines.					
HIST 108 or **HIST 109*** or GEOG 101 or PHL 101 or **POLS 101*** or PSY 101 or ECON 102 or ECON 101 or Foreign Language	World Civilization Before 1500 or **World Civilization After 1500*** or World Regional Geography or Intro to Philosophy or **American/National Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.*	6	HISTORY 1100 or **HISTORY 1200*** or HISTORY 2110 or PHIL 1105 or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or World Regional Geography or Self and World: Intro to Philosophy or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.*	6
Humanities, Arts, and Social Sciences					
Select 3 hours.					
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Total Hours	15		Total Hours	15
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
CIS 120 or CIS 155	Programming in Python or Programming in C#	3	CS 1500	Computational Problem Solving	3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6

Maximum credit hours to be transferred to Missouri S&T degree requirements. — 60

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.
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