

Metropolitan Community Colleges — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2020

Metropolitan Community Colleges

Missouri S&T

Communication Skills (Take all courses)

ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3	ENGLISH 1160	Writing and Research	3
COMM 100	Fundamentals of Speech	3	SPMS 1185	Principles of Speech <small>(Not required for S&T degree. Transfers as free elective)</small>	3
Total Hours			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus for Engineers I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus for Engineers II	4
MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus with Analytic Geometry III	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	General Chemistry II	3
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
34			28		

Social Sciences (Select 9 hours)

HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics <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
<i>See your advisor for course options</i>		6	Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
Total Hours			Total Hours		
9			9		

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

ENGL 220 or ENGL 222 or ENGL 254 or ENGL 260 or ENGL 262/268	British Literature to 1750 or American Literature I or World Literature I or African-American Literature or Women's Lives and Autobiography/Women's Literature <small>(or other literature elective)</small>	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2245 or ENGLISH 2242 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or African American Literature or Literature by Women <small>(or other literature elective)</small>	3
PHIL 200	Logic	3	PHILOS 1115	Intro to Logic	3
PHIL 100	Introduction to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective		
Total Hours			Total Hours		
6			6		

Additional Degree Requirements

(Select additional hours up to the maximum transferable hours shown below.)

MATH 230	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
CSIS 271 or CSIS 123 or CSIS 223 or ENGR 204	Data Structures and Algorithm Analysis or Programming Fundamentals or Object-Oriented Programming With C++ or Programming for Engineers and Scientists	3	CS 1500 or CS 1971, 1981 or CS 1972, 1982	Computational Problem Solving or Intro to Programming Method and Lab (C++) or Intro to MATLAB Programming and Lab	3
BIOL 101	General Biology <small>(if required for AA degree)</small>	5	BIO SCI 1113	General Biology <small>(Transfers as free elective)</small>	3
Total Hours			Total Hours		
12			12		

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

68

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.