Metropolitan Community Colleges — 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.

	Metropolitan Community Colleges	Missouri S&T							
	Со	mmun	ication Skills						
Take all courses.									
ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation		3			
ENGL 102 or	Composition and Reading II or	3	ENGLISH 1160 or	Writing and Research or		3			
ENGL 215	Technical Writing		ENGLISH 3560	Technical Writing					
	Total Hours	6		Total I	lours	6			
	Math	emati	cs and Science						
		Take a	all courses.						
MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I		4			
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II		4			
MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus 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, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree requirement. Will transfer as general on	dit.	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	34		Total I	lours	28			
	Humanities, Arts, and Social	l Scier	nces General Educatio	n 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.									
			s and Fine Arts						
	Select 6 hours from at least two	specific							
ENGL 220 or	British Literature to 1750 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or					
ENGL 222 or	American Literature I or	_	ENGLISH 1212 or	British Literature II: 1800 to Present		_			
ENGL 254 or	World Literature I or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or		3			

	Select 6 hours from at	least two specific	disciplines and at least on	e literature course.	
ENGL 220 or ENGL 222 or ENGL 254 or ENGL 268 or ENGL 260	British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature	3
HIST 120* or HIST 121* or ART 108 or MUSI 108 or SPDR 106	United States History to 1865* or United States History since 1865* or Survey of Art or Music Appreciation or Theatre Appreciation	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	3

Behavioral and Social Sciences

Select 6 hours from at least two specific disciplines. HISTORY 1100 or

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HIST 133 or	Foundations of Western Civilization or		HISTORY 1100 or	Early Western Civilization or
HIST 134* or	Modern Western Civilization* or		HISTORY 1200* or	Modern Western Civilization* or
GEOG 105 or	World Geography or		HISTORY 2110 or	World Regional Geography or
PHIL 100 or	Intro to Philosophy or		PHILOS 1105 or	Self and World: Intro to Philosophy or
PHIL 103 or	Intro to Critical Thinking or		PHILOS 1115 or	Logic and Reasoning: An Introduction or
PHIL 200 or	Logic or	6	POL SCI 1200* or	American Government* or
POLS 136* or	Intro to US National Politics* or	U	PSYCH 1101 or	General Psychology or
PSYC 140 or	General Psychology or		ECON 1100 or	Principles of Microeconomics or
ECON 211 or	Microeconomics or		ECON 1200 or	Principles of Macroeconomics or
ECON 210 or	Macroeconomics or		Foreign Language	Elementary or Intermediate Foreign Language
Foreign Language	Elementary or Intermediate Foreign Language			*Satisfies the State of Missouri government requirement.
	*Satisfies the State of Missouri government requirement.			

Humanities, Arts, and Social Sciences

Select 3 hours.

Humanities, Arts, Social Scie music, theater, English and te philosophy, political science, etymology, or foreign language	psychology, economics,	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
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		Total Hours	15			Total Hours	15
		Addition	al Deg	ree Requirements	s		
Select additional courses to total up to the maximum transfer credit hours shown below.							
IATH 220	Differential Equations		2	MATH 3304	Elementary Differential Equations		3

MATH 230	Differential Equations	3	IVIA I FI 3304	Elementary Differential Equations	3
CSIS 271 or	Data Structures and Algorithm Analysis or		CS 1500 or	Computational Problem Solving or	
CSIS 123 or	Programming Fundamentals or	3	CS 1972, 1982	Intro to MATLAB Programming and Lab	3
CSIS 223	Object-Oriented Programming With C++		C3 1972, 1902	into to MATEAB Flogramming and Eab	
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6

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

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T. receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

complete all courses on this guide before transferring to Missouri S&T.

*Satisfies the State of Missouri government requirement.

Students must Students are not required to

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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.