## East Central College — Missouri S&T

Physics BS with Secondary Education Teacher Certification
Transfer Guide Effective as of Fall 2025

	East Central College				Missouri S&T		
		Cor	nmunic	cation Skills			
			Take all	courses.			
ENG 101	English Composition I		3	ENGLISH 1120	Exposition and Argumentation		3
ENG 102 or	English Composition II or			ENGLISH 1160 or	Writing and Research or		_
ENG 104	Technical Writing		3	ENGLISH 3560	Technical Writing		3
COM 110	Public Speaking		3	SPMS 1185	Principles of Speech		3
	r anns op sammig	Total Hours	9		·	Total Hours	9
				and Science		Total Hours	
				courses.			
MTH 190	Analytic Geometry & Calculus I		5	MATH 1214	Calculus I		4
MTH 210	Analytic Geometry & Calculus II		5	MATH 1215	Calculus II		4
MTH 220	Analytical Geometry & Calculus III		5	MATH 2222	Calculus III		4
PHY 211, 212	General Physics I and Lab		5	PHYSICS 1135	Engineering Physics I		4
PHY 221, 222	General Physics II and Lab		5	PHYSICS 2135	Engineering Physics II		4
CHM 111	General Chemistry I and Lab		5	CHEM 1310, 1319	General Chemistry I and Lab		5
CHM 112	General Chemistry II and Lab		5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analyst *CHEM 1510 is not an S&T degree reguirement. Will transfer as		3
		Total Hours	35		On Emilional and an adjust regarding in the manager ac	Total Hours	28
				Sciences		Total Tiouro	
			Take all	courses.			
HST 101 or	US History to 1865 or			HISTORY 1300 or	American History to 1877 or		
HST 102 or	US History 1865-1945 or		3	HISTORY 1310 or	American History Since 1877 or		3
CIV 202	European Civilization II			HISTORY 1200	Modern Western Civilization		
PSC 102	US Government I: National and State		3	POL SCI 1200	American Government		3
PSY 101	General Psychology		3	PSYCH 1101	General Psychology		3
		Total Hours	9			Total Hours	9
				anities			
			Take all	courses.			
ART 101 or	Art Appreciation or		_	ART 1180 or	Art Appreciation or		_
MUS 101 or	Music Appreciation or		3	MUSIC 1150 or	Music Appreciation or		3
THE 101	Theatre Appreciation			THEATRE 1190	Theatre via Video		
ENG 210 or	Survey British Lit: Beginnings to 1784 or			ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or		
ENG 221 or	Survey American Lit: Colonial to 1865 or			ENGLISH 1221 or	American Literature: 1600 to 1865 or		_
ENG 124 or	World Literature I or		3	ENGLISH 1231 or	World Literature I or		3
ENG 214 or	Women's Literature or			ENGLISH 2242 or	Literature by Women or		
ENG 215	African-American Literature or other literature	Total Hours	6	ENGLISH 2245 or	African American Literature or other literature	Total Hours	6
				ee Requirements		Total Hours	U
	Soloat additional or		_	ee Requirements naximum transfer credit h	ours shown bolow		
MTH 245	Differential Equations	ourses to total u	3	MATH 3304	Elementary Differential Equations		3
	· ·				Linear Algebra		
MTH 241	Linear Algebra		3	MATH 3108	Applies to degree as math/stat elective.		3
					General Biology and Lab*or		
BIO 111 or BIO 121	General Biology and Lab* (5) or Principles of Biology I and Lab * (5)		3	BIO SCI 1113, 1219 or BIO SCI 1213,* 1219	Principles of Biology* and Lab* *BIO SCI 1213 will be substituted for 1113. The lab is not a deg will transfer as general elective credit.	ree requirement,	3
PHY 102 or	Intro to Astronomy or			PHYSICS 1505 or	Introductory Astronomy or		
GEO 101	Intro to Physical Geology Lec		3	GEOLOGY 1110	Physical and Environmental Geology Will be substituted for PHYSICS 1605.		3
		Teacher C		tion Requirements			
EDU 201 or	Foundations of Education or			courses.			
EDU 214	Multicultural Education		3	EDUC 1074	Education in a Diverse Society		2
EDU 190 or	CDA Capstone-Childcare Practicum or		3	EDUC 1104	Teacher Field Experience I		1
EDU 212	Teaching Professional/Field Experience		3		reactier rield Experience r		
EDU 241	Educational Psychology		3	EDUC 2102 or PSYCH 2300	Educational Psychology		3
PSY 250	Human Development		3	PSYCH 3310	Developmental Psychology		3
EDU 244	Education of the Exceptional Learner		3	EDUC 2310 or	Education of the Exceptional Child or		3
	•	Total Hours	15	PSYCH 4310	Psychology of the Exceptional Child	Total Hours	12
Destante ID I	annual for Freehold F. H				According to the force of the second	. Juli i iduid	
Professional Requi	rements for Teacher Education Program: Pleas	e view all progra	am requii	rements at https://teachere	ducation.mst.edu/secondaryeducation/.		
	Maximum credit hours	to be transfe	rred to	Missouri S&T degre	e requirements.		61
Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T. must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.							tudents
must receive special				ove toward the Missouri S&T di guide before transferring to Mis		Students a	ne not
This transfer guide is	published by Missouri University of Science and Technology and is in	effect as of Fall 2025.	Further inforr	nation or updates are available from M	issouri S&T Transfer Admissions at transfer.mst.edu, transfer@ms	t.edu, or 800-522-09	38.