East Central College — Missouri S&T Physics BS Transfer Guide Effective as of Fall 2025

	East Central College			Missouri S&T		
			nication Skills			
ENG 101 ENG 102 or	English Composition I English Composition II or	3 3	ENGLISH 1120 ENGLISH 1160 or	Exposition and Argumentation Writing and Research or		3
ENG 104	Technical Writing Tota	al Hours 6	ENGLISH 3560	Technical Writing	otal Hours	6
			ics and Science		Jan Hours	Ü
MTH 190	Analytic Coometry & Coloubya I		all courses.	Coloubus I		4
MTH 190 MTH 210	Analytic Geometry & Calculus I Analytic Geometry & Calculus II	5 5	MATH 1214 MATH 1215	Calculus I Calculus II		4
MTH 220	Analytical Geometry & Calculus III	5	MATH 2222	Calculus III		4
CHM 111 CHM 112	General Chemistry I and Lab General Chemistry II and Lab	5 5	CHEM 1310, 1319 CHEM 1320, 1510*	General Chemistry I and Lab General Chemistry II (3) and Qualitative Analysis (*CHEM 1510 is not a degree requirement, transfers as general elect		5 3
PHY 211, 212	General Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	ve orean.	4
PHY 221, 222	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II		4
	Tota Humanities, Arts, and	al Hours 35	noos Conoral Educati		otal Hours	28
	From the options 6 hours Humanitie	listed in each s and Fine Arts t and Social Scier	group below, select 15 ho from at least two specific dis nces from at least two speci	· urs to include sciplines and fic disciplines.		
	Select 6 hours from at le		es and Fine Arts c disciplines and at least on	e literature course		
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124	Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature I	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 I		3
HST 101 or HST 102 or ART 101 or MUS 101 or THE 101	US History to 1877 or US History Since 1877 or Art Appreciation or Music Appreciation or Theatre Appreciation *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
	Select 6		nd Social Sciences least two specific discipline	es.		
CIV 201 or CIV 202* or GRY 101 or PHL 101 or PHL 111 or PSC 102* or PSY 101 or ECO 102 or ECO 101 or Foreign Language	Western Civilization I or Western Civilization II* or World Geography or Intro to Philosophy or Intro to Logic or US Government I: National and State* 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 2100 or PHILOS 1105 or PHILOS 1115 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 Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Pinciples of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6
	Hu		s, and Social Sciences ect 3 hours.			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histo music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any h music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	on,	3
		al Hours 15 dditional De	gree Requirements	T	otal Hours	15
		•	ne maximum transfer credit h			
MTH 245	Differential Equations	3	MATH 3304	Elementary Differential Equations Linear Algebra		3
MTH 241	Linear Algebra	3	MATH 3108	Recommended but not required; satisfies a math/stat elective required.	ement.	3
EGR 251 or EGR 221,222	Data Structures or C++ Program Engineers and Lab	3	CS 1500	Computational Problem Solving		3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives		6
	· ·	must be completed hours listed above courses on this gui	d at Missouri S&T.	s. Students ri S&T.	Students are not requir	
	Further information or updates are available					