East Central College — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2023

	East Central College			Missouri S&T	
5110 101			Skills (Take all co		-
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
	Total Hours	6	O : /T ! !!	Total Hours	6
			Science (Take all	· · · · · · · · · · · · · · · · · · ·	
ЛТН 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
ЛТН 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MTH 220	Analytical Geometry & Calculus III	5	MATH 2222	Calculus III	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	General Chemistry II	3
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
	Total Hours	35		Total Hours	28
	Oalant Observe to be about		cial Sciences	-6.46	
	Select 9 hours to include	at least			
HST 101 or	US History to 1877 or		HISTORY 1200 or	Modern Western Civilization or	
HST 102 or	US History Since 1877 or		HISTORY 1300 or	American History to 1877 or	
CIV 202 or	European Civilization II or	3	HISTORY 1310 or	American History Since 1877 or	3
PSC 102	US Government I: National and State		POL SCI 1200	American Government	
	(At least one of these courses is required to satisfy state requirement)			(At least one of these courses is required to satisfy state requirement)	
ECO 102 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 101	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
.00 101	1 morphes of Macrocoonomics	_	20011 1200	(or other economics)	Ī
PSY 101	General Psychology	3	PSYCH 1101	General Psychology (or other psychology)	3
	Social Sciences Elective: Any economics,			Casial Caianasa Flastivas Anysasanamias history	
	history, political science, sociology,	3	Social Sciences	Social Sciences Elective: Any economics, history,	3
	psychology elective			political science, sociology, psychology elective	
	Total Hours	9		Total Hours	9
			lumanities		
	Select 6 credit	hours t	o include at least		
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ART 101	Art Appreciation	3	ART 118	(or other philosophy) Art Appreciation (or other fine art)	3
	• •	-		Music Understanding and Appreciation	
MUS 101	Music Appreciation	3	MUS 1150	(or other music)	3
ΓHE 101	Theatre Aappreciation	3	THEATRE 1190	Theatre via Video (or other theater)	3
ENG 210 or	Survey British Lit: Beginnings to 1784 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
NG 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	3	ENGLISH 2242 or	Literature by Women or	3
ENG 215	African-American Literature		ENGLISH 2245 or	African American Literature	
	(or other literature elective)			(or other literature elective)	
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	_
	Total Hours	6		Total Hours	6
			Degree Requireme		
	Select additional courses to total	al up to	the maximum tran	sfer credit hours shown below.	
ЛТН 245	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
	· ·			Linear Algebra	
MTH 241	Linear Algebra	3	MATH 3108	Recommended but not required, satisfies a math/stat elective requirement.	3
GR 251 or	Data Structures or	2	CS 1500 or	Computational Problem Solving or	2
GR 221,222	C++ Program Engineers and Lab	3	CS 1972, 1982	Intro to MATLAB Programming and Lab	3
				Maximum Free Electives	6
	Maximum credit hours to be tra	ansferre	ed to Missouri S&T	degree requirements.	60
	Missouri S&T residency requirements: The	a last 60 ho	urs of any Missouri S&T de	gree must be completed at Missouri S&T.	

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

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

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.