East Central College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2023

East Central College			Missouri S&T		
Communication Skills (Take all courses)					
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 104	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COM 110	Public Speaking (if required for AA degree.)	3	SPMS 1185	Principles of Speech (Not required for the S&T degree. Applies to S&T degree as Free Elective)	3
	Total Hours	9		Total Hours	9
Mathematics and Science (Take all 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
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 and Qualitatve Analysis	5
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
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
	Total Hours	38		Total Hours	33
Social Sciences (Select up to 6 credit hours to include one course to satisfy state requirement)					
HST 101 or HST 102 or CIV 202 or PSC 102	US History to 1877 or US History Since 1877 or European Civilization II or US Government I: National and State (At least one of these courses is required to satisfy state	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 (At least one of these courses is required to satisfy state requirement)	3
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics (or other economics course)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics or other economics course	3
PSY 101	General Psychology (or other psychology course)	3	PSYCH 1101	General Psychology or other psychology course	3
	Other economics, history, political science, sociology, psychology elective.	3		Other economics, history, political science, sociology, psychology elective.	3
	Total Hours	6		Total Hours	6
Humanities (Select 6 hours)					
ENG 210 or ENG 221 or ENG 124 or ENG 214 or ENG 215	Survey British Lit: Beginnings - 1784 or Survey American Lit: Beginnings - 1865 or World Literature I or Women's Literature or African-American Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature	3
ART 101 or MUS 101 or THE 101	Art Appreciation (or other art) or Music Appreciation (or other music) or Theatre Appreciation (or other theatre)	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation (or other art) or Music Appreciation (or other music) or Theatre via Video (or other theatre)	3
PHL 101	Introduction to Philosophy (or other philosophy)	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
	Other fine art, literature, or philosophy elective	3		Other fine art, literature, or philosophy elective	3
	Total Hours	6		Total Hours	6
Additional Degree Requirements **Select additional courses to total up to the maximum transfer credit hours shown below.**					
CHM 205	Organic Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
EGR 221, 222	C++ Program Engineers	4	CS 1971,1981	Intro to Programming Methodology and Lab (C++)	3
BIO 111	General Biology Lecture and Lab (if required for AA degree)	5	BIO SCI 1113	General Biology (Required for pre-med or bio-chem emphases. Otherwise, applies to S&T degree as free elective)	3

Maximum credit hours to be transferred to Missouri S&T degree requirements. 60

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.

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.