

East Central College — Missouri S&T

Geology and Geophysics 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 (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 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3		
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	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		
GEO 101	Intro to Physical Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3		
EGR 221,222 or EGR 251	C++ Program Engineers and Lab (4) or Data Structures (3)	3	CS 1500	Computational Problem Solving	3		
		Total Hours	34			Total Hours	30

Social Sciences (Take all courses)

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	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
	Other economics, history, political science, sociology, psychology elective	3		Other economics, history, political science, sociology, psychology elective	3	
Total Hours			9	Total Hours		9

Humanities (Select 6 hours)

ART 1180	Art Appreciation	3	ART 1180	Art Appreciation	3		
MUSIC 1150	Music Understanding and Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3		
THEATRE 1190	Theatre via Video	3	THEATRE 1190	Theatre via Video	3		
ENGLISH 1211	British Literature I: The Beginnings to 1800	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3		
ENGLISH 1221	American Literature: 1600 to 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3		
ENGLISH 1231	World Literature I	3	ENGLISH 1231	World Literature I	3		
ENGLISH 2242	Literature by Women	3	ENGLISH 2242	Literature by Women	3		
ENGLISH 2245	African American Literature	3	ENGLISH 2245	African American Literature	3		
PHILOS 1105	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy	3		
	Other fine art, literature, or philosophy	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.

MTH 220	Analytical Geometry & Calculus III	5	MATH 2222	Calculus III (Transfers as required science elective)	4
MTH 245	Differential Equations	3	MATH 3304	Elementary Differential Equations (Transfers as required science elective)	3
CHM 112	General Chemistry II and Lab	5	CHEM 1320	General Chemistry II (Transfers as required science elective)	3
BIO 111	General Biology I and Lab	5	BIO SCI 1113	General Biology (Transfers as required science elective)	3
	Other science, mathematics, or engineering course.			Other science, mathematics, or engineering course.	3

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

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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.