

East Central College — Missouri S&T

Geology and Geophysics BS

Transfer Guide Effective as of Fall 2024

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
Total Hours			6		
Total Hours			6		

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 or CS 1971, 1981*	Computational Problem Solving or Intro to Programming Methodology and Lab *	3
Total Hours			34		
Total Hours			30		

*Will be substituted for CS 1500.
A maximum of 3 credit hours will apply to this degree requirement. Any additional credit hours will apply to degree totals as general elective credit.

Social Sciences

Take all courses.

CIV 202 or HST 101 or HST 102 or PSC 102	European Civilization II or US History to 1877 or US History Since 1877 or US Government I: National and State <small>At least one of these courses is required to satisfy a State of Missouri requirement.</small>	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 <small>At least one of these courses is required to satisfy state requirement.</small>	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
Social Science	Other economics, history, political science, sociology, psychology elective	3	Social Science	Other economics, history, political science, sociology, psychology elective	3
Total Hours			9		
Total Hours			9		

Humanities

Select 6 hours.

ART 101	Art Appreciation	3	ART 1180	Art Appreciation	3
MUS 101	Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3
THE 101	Theatre Appreciation	3	THEATRE 1190	Theatre via Video	3
ENG 210	Survey British Lit: Beginnings - 1784	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 221	Survey American Lit: Beginnings - 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENG 124	World Literature I	3	ENGLISH 1231	World Literature I	3
ENG 214	Women's Literature	3	ENGLISH 2242	Literature by Women	3
ENG 215	African-American Literature	3	ENGLISH 2245	African American Literature	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
Humanities	Other fine art, literature, or philosophy elective	3	Humanities	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 <small>Transfers as required science elective.</small>	4
MTH 245	Differential Equations	3	MATH 3304	Elementary Differential Equations <small>Transfers as required science elective.</small>	3
CHM 112	General Chemistry II and Lab	5	CHEM 1320	General Chemistry II <small>Transfers as required science elective.</small>	3
BIO 111	General Biology I and Lab	5	BIO SCI 1113	General Biology <small>Transfers as required science elective.</small>	3
Science, Math, Engineering	Other science, mathematics, or engineering course.	3	Science, Math, Engineering	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.