

# Johnson County Community College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2023

### Johnson County Community College

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3		
ENGL 122 or ENGL 123	Composition II or Technical Writing I	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3		
COMS 121	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)

MATH 241 and MATH 242	Calculus I and Calculus II	10	MATH 1214 and MATH 1215	Calculus I and Calculus II	8
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
GEOS 130	General Geology	5	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CS 235 or CS 250	Object-Oriented Programming Using C++ or Basic Data Structures using C++	4	CS 1500	Computational Problem Solving	3
Total Hours 34			Total Hours 27		

#### Social Sciences (Take all courses)

HIST 126 or HIST 140 or HIST 141 or POLS 124	Western Civ: Scientific Revolution to Modern Age or US History to 1877 or US History since 1877 or American National Government (At least one of these courses is required to satisfy state requirement)	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
ECON 231 or ECON 230	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)

MUS 121 or MUS 126	Intro to Music Listening or Intro to World Music	3	MUSIC 1150	Music Understanding and Appreciation	3		
THEA	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3		
ENGL 236	British Literature to 1800	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3		
ENGL 246	American Literature I	3	ENGLISH 1221	American Literature: 1600 to 1865	3		
ENGL 251	World Literature to 1620	3	ENGLISH 1231	World Literature I	3		
ENGL 217	Literature by Women	3	ENGLISH 2242	Literature by Women	3		
PHIL 121	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to 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.

MATH 243	Calculus III	5	MATH 2222	Calculus III (Transfers as required science elective)	4
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations (Transfers as required science elective)	3
CHEM 131	General Chemistry II	4	CHEM 1320	General Chemistry II (Transfers as required science elective)	3
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113	General Biology (Transfers as required science elective)	3
	Other science, mathematics, or engineering course.	3		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.

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](mailto:transfer.mst.edu), [transfer@mst.edu](mailto:transfer@mst.edu), or 800-522-0938.