

Johnson County Community College — Missouri S&T

Geology and Geophysics BS Transfer Guide Effective as of Fall 2024

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
Total Hours			Total Hours		
6			6		

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 or CS 200*	Object-Oriented Programming Using C++ or Basic Data Structures using C++ or Concepts of Programming Algorithms Using C++*	4	CS 1500 or CS 1500 or CS 1971,1981*	Computational Problem Solving or Intro to Programming Methodology and Lab	3
Total Hours			Total Hours		
34			27		

*CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary.

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 <small>At least one of these courses is required to satisfy state 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
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
Social Science	Other economics, history, political science, sociology, or psychology.	3	Social Science	Other economics, history, political science, sociology, or psychology.	3
Total Hours			Total Hours		
9			9		

Humanities

Select 6 hours.

MUS 121 or THEA 120	Intro to Music Listening or Intro to Theatre	3	MUSIC 1150	Music Understanding and Appreciation	3
ENGL 236	British Literature to 1800	3	THEATRE 1190	Theatre via Video	3
ENGL 246	American Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENGL 251	World Literature to 1620	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENGL 217	Literature by Women	3	ENGLISH 1231	World Literature I	3
PHIL 121	Intro to Philosophy	3	ENGLISH 2242	Literature by Women	3
Humanities	Other fine art, literature, or philosophy elective	3	PHILOS 1105	Self and World: Intro to Philosophy	3
Total Hours			Total Hours		
6			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 <small>Applies to the degree as a required science elective.</small>	4
MATH 254	Differential Equations	4	MATH 3304	Elementary Differential Equations <small>Applies to the degree as a required science elective.</small>	3
CHEM 131	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>Applies to the degree as a required science elective. *CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</small>	3
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113	General Biology <small>Applies to the degree as a 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.