

# Johnson County Community College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2017

### Partner School

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
SPD 121	Public Speaking (required for AA degree)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as free elective)	3
Total Hours			Total Hours		
9			9		

#### Mathematics and Science (Take all courses)

MATH 241 & MATH 242	Calculus I and Calculus II	10	MATH 1214 & MATH 1215	Calculus for Engineers I and Calculus II for Engineers	8
CHEM 122 or CHEM 124,125	Principles of Chemistry or General Chemistry I Lecture 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, 1119	Physical and Environmental Geology and Lab	4
CS 200 or CS 235	Concepts of Programming Algorithms/C++ or Object Oriented Programming/C++	4	CS 1971, 1981 or 1570, 1580	CS Intro to Programming Method and Lab (C++) or Intro to Programming and Lab (C++)	3 4
Total Hours			Total Hours		
25			25		

#### Social Sciences (Take all courses)

HIST 126 or HIST 140 or HIST 141 or POLS 122 or POLS 124	Modern Western Civilization or U.S. History to 1877 or U.S. History since 1877 or Political Science 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	Economics II or Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSYC 130	Introduction to Psychology	3	PSYCH 1101	General Psychology	3
<i>See your advisor for course options</i>			Other economics, history, political science, sociology, psychology elective		
Total Hours			Total Hours		
9			9		

#### Humanities (Select 6 hours)

MUS 121	Introduction to Music Listening	3	MUSIC 1150	Music Understanding and Appreciation	3
THEA 120	Introduction to Theater	3	THEATRE 1190	Theatre Appreciation	3
ENGL 236	British Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
PHIL 121	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective		
Total Hours			Total Hours		
6			6		

#### Additional Degree Electives (Select up to 9 hours)

MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry 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
<i>(Required for AA degree)</i>			BIO SCI 1113	General Biology (Transfers as required science elective)	3
Total Hours			Total Hours		
9			9		

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

**69**

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.