

# Metropolitan Community Colleges — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2017

### Metropolitan Community Colleges

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3	ENGLISH 1160	Writing and Research	3
COMM 100	Fundamentals of Speech (Required for AA degree)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as free elective)	3
Total Hours			9		

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

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus for Engineers I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus for Engineers II	4
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
CHEM 111	General College Chemistry I	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
GEOL 101	General Geology	5	GEOLOGY 1110, 1119	Physical and Environmental Geology and Lab	4
CSIS 155 or CSIS 123 or ENGR 204	C++ Programming or Programming Fundamentals C++ or Programming for Engineers	3	CS 1570, 1580 or CS 1971, 1981 or CS 1972, 1982	Intro to Programming or Intro to Programming Methodology and Lab or Intro to MATLAB Programming and Lab	3
Total Hours			28		

#### Social Sciences (Take all courses)

HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics (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 211 or ECON 210	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			9		

*See your advisor for course options*

#### Humanities (Select 6 hours)

ART 108	Survey of Art	3	ART 1180	Art Appreciation	3
MUSI 108	Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3
SPDR 106	Theater Appreciation	3	THEATRE 1190	Theatre Appreciation	3
ENGL 220	British Literature to 1750	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENGL 222	American Literature I	3	ENGLISH 1221	American Literature: 1600 to 1865	3
PHIL 100	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
Total Hours			6		

*See your advisor for course options*

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

MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus with Analytic Geometry III (Transfers as required science elective)	4
MATH 230	Differential Equations	3	MATH 3304	Elementary Differential Equations (Transfers as required science elective)	3
CHEM 112	General College Chemistry II	5	CHEM 1320	General Chemistry II (Transfers as required science elective)	3
BIOL 101	General Biology (Required for AA degree)	5	BIO SCI 1113	General Biology (Transfers as required science elective)	3
Total Hours			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.