

# St. Charles Community College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2017

### St. Charles Community College

### Missouri S&T

#### Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
SPE 101	Oral Communications (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)

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	4
MAT 215	Probability Theory	4	STAT 3115	Engineering Statistics	3
CHM 115	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
PHY 125, 127	Intro to Physical Geology	4	GEOLOGY 1110, 1119	Physical and Environmental Geology and Lab	4
CPT 186 or CPT 182	Object Oriented Programming in C++ or Beginning Programming in C++	3	CS 1570 or CS 1971, 1981	Intro to Programming or Intro to Programming Methodology and Lab	3
Total Hours			Total Hours		
29			28		

#### Social Sciences (Take all courses)

HIS 101 or HIS 102 or HIS 146 or POL 101	US History to 1877 or US History Since 1877 or Western Civilization of Modern Europe or American 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
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 101	Introduction to Psychology	3	PSYCH 1101	General Psychology	3
			Other economics, history, political science, sociology, psychology elective		
Total Hours			Total Hours		
9			9		

See your advisor for course options

#### Humanities (Select 6 hours)

ART 1001	Art Appreciation	3	ART 1180	Art Appreciation	3
MUS 111	Music Appreciation	2	MUSIC 1150	Music Understanding and Appreciation	3
THE 122	Introduction to Theatre	3	THEATRE 1190	Theatre Appreciation	3
LIT 250	English Literature Before 1800	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
LIT 210	American Literature From 1620 - 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
			Other fine art, literature, or philosophy elective		
Total Hours			Total Hours		
6			6		

See your advisor for course options

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

MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus with Analytic Geometry III (Transfers as required science elective)	4
MAT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations (Transfers as required science elective)	3
CHM 116	General Chemistry II and lab	5	CHEM 1320	General Chemistry II (Transfers as required science elective)	3
GEO 120	Intro to Geographic Information Systems	3	GEOLOGY 3811	Fundamentals of Geographic Information Systems (Transfers as a required science elective)	3
BIO 105	Essentials of Biology (Required for AA degree)	3	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.