

# St. Charles Community College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2023

### 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 or ENG 115	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3		
COM 106	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)

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
CHM 115	General Chemistry I	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	Intro to Physical Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CPT 135 or CPT 185 or CPT 189	Computer Science 1 with Python (4)or Programming in C Sharp (3) or Java Programming (3)	3	CS 1500	Computational Problem Solving	3
		Total Hours	31		
				Total Hours	27

#### Social Sciences (Take all courses)

HIS 146 or HIS 101 or HIS 102 or POL 101	Western Civ: Modern European Heritage or US History to 1877 or US History Since 1877 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
	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)

ART 1001	Art Appreciation	3	ART 1180	Art Appreciation	3
MUS 111	Music Appreciation	2	MUSIC 1150	Music Understanding and Appreciation	3
THE 122	Intro to Theatre	3	THEATRE 1190	Theatre via Video	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
LIT 272	World Lit-Ancient World thru Renaissance	3	ENGLISH 1231	World Literature I	3
LIT 223	African American Literature	3	ENGLISH 2245	African American Literature	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	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.

MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus 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
PHY 225, 227	Historical Geology and Lab	4	GEOLOGY 1120, 1129	Evolution of the Earth and Lab	4
GEO 120	Intro to Geographic Information Systems	3	GEOLOGY 3811	Fundamentals of Geographic Information Systems (Transfers as a required science elective)	3
BIO 105 or BIO 150	Essentials of Biology (3) or General Biology: Cells to Organisms (5) (if required for AA degree)	3	BIO SCI 1113	General Biology (Transfers as required science elective)	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), or 800-522-0938.