

St. Charles Community College — Missouri S&T

Geology and Geophysics BS Transfer Guide Effective as of Fall 2024

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
Total Hours			6		
Total Hours			6		

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 <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
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
Social Science	Other economics, history, political science, sociology, or psychology.	3	Social Science	Other economics, history, political science, sociology, or psychology.	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	Self and World: Intro to Philosophy	3
Humanities	Other fine art, literature, or philosophy elective	3	Humanities	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 <small>Applies to the degree as a required science elective.</small>	4
MAT 250	Differential Equations	3	MATH 3304	Elementary Differential Equations <small>Applies to the degree as a required science elective.</small>	3
CHM 116	General Chemistry II and Lab	5	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
PHY 225, 227	Historical Geology and Lab	4	GEOLOGY 1120, 1129	Evolution of the Earth (3) and Lab (1)	4
GEO 120	Intro to Geographic Information Systems	3	GEOLOGY 3811	Fundamentals of Geographic Information Systems <small>Applies to the degree as a required science elective.</small>	3
BIO 105	Essentials of Biology	3	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.