

# Metropolitan Community Colleges — Missouri S&T

## Geology and Geophysics BS Transfer Guide Effective as of Fall 2025

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

### 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 or ENGL 215 or COMM 100	Composition and Reading II or Technical Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech <small>Applies to degree as Gen Ed Communication requirement.</small>	3
Total Hours		6	Total Hours		6

#### Mathematics and Science

Take all courses.

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MATH 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	Physical Geology	5	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CSIS 123 or ENGR 204	Programming Fundamentals C++ or Programming for Engineers and Scientists	3	COMP SCI 1971, 1981* or COMP SCI 1972, 1982*	Intro to Programming Methodology and Lab * or Intro to MATLAB Programming and Lab* <small>*Will be substituted for COMP SCI 1500.</small>	3
Total Hours		36	Total Hours		30

#### Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include  
6 hours Humanities and Fine Arts from at least two specific disciplines and  
6 hours Behavioral and Social Sciences from at least two specific disciplines.

**\*At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**

#### Humanities and Fine Arts

Select 6 hours from at least two specific disciplines.

ENGL 220 or ENGL 221 or ENGL 222 or ENGL 223 or ENGL 254 or HIST 120* or HIST 121* or ART 108 or MUSI 108 or SPDR 106	British Literature to 1750 or British Literature 1750-Present or American Literature to 1860 or American Literature 1860-Present or World Literature I or <b>United States History to 1865*</b> or <b>United States History since 1865*</b> or Survey of Art or Music Appreciation or Theatre Appreciation <small>*Satisfies the State of Missouri government requirement.</small>	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or <b>HISTORY 1300*</b> or <b>HISTORY 1310*</b> or ART 1180 or MUSIC 1150 or THEATRE 1190	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or <b>American History to 1877</b> or <b>American History Since 1877</b> or Art Appreciation or Music Understanding and Appreciation or Theatre via Video <small>*Satisfies the State of Missouri government requirement</small>	6
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#### Behavioral and Social Sciences

Select 6 hours from at least two specific disciplines.

HIST 133 or HIST 134* or GEOG 105 or PHIL 100 or PHIL 103 or PHIL 200 or POLS 136* or PSYC 140 or ECON 211 or ECON 210 or Foreign Language	Foundations of Western Civilization or <b>Modern Western Civilization*</b> or World Geography or Intro to Philosophy or Intro to Critical Thinking or Logic or <b>Intro to US National Politics*</b> or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	6	HISTORY 1100 or <b>HISTORY 1200*</b> or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or <b>POL SCI 1200*</b> or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or <b>Modern Western Civilization*</b> or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or <b>American Government*</b> or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	6
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#### Humanities, Arts, and Social Sciences

Select 3 hours.

HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
Total Hours		15	Total Hours		15

#### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus III <small>Applies to the degree as a required science/engineering elective.</small>	4
MATH 230	Differential Equations	3	MATH 3304	Elementary Differential Equations <small>Applies to the degree as a required science/engineering elective.</small>	3
CHEM 112	General College Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>Applies to the degree as a required science/engineering elective. *CHEM 1510 is not a degree requirement, transfers as general elective credit.</small>	3
GEOL 102	Historical Geology	4	GEOLOGY 1120, 1129	Evolution of the Earth (3) and Lab (1)	4
BIOL 101	General Biology	5	BIO SCI 1113, 1219*	General Biology and Lab* <small>BIO SCI 1113 applies to the degree as a required science elective. BIO SCI 1219 transfers as general elective credit.</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.

**62**

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.  
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