

St. Louis Community College — 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.

St. Louis Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or COM 107 or ENG 103	College Composition II or Public Speaking or Report Writing	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech	3
Total Hours 6			Total Hours 6		

Mathematics and Science

Take all courses.

MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 122	Engineering Physics	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
GEO 111	Physical Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
IS 167 or IS 187 or IS 280	C++ Programming I (4) or Java Programming I (4) or Python (3)	3	CS 1500	Computational Problem Solving	3
Total Hours 31			Total Hours 27		

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.

ENG 211 or 204 or ENG 205 or ENG 231 or HST 101* or HST 102* or ART 100 or MUS 114 or THT 101	ENG British Literature II or American Literature I or American Literature II or World Literature or US History to 1865* or US History 1865 to Present* or Art Appreciation or Music Appreciation or Intro to Theatre <small>*Satisfies the State of Missouri government requirement.</small>	6	ENGLISH 1212 or 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	ENGLISH 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 American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change <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.

HST 115 or HST 128* or GEG 101 or PHL 101 or PHL 102 or PSC 101* or PSY 200 or ECO 152 or ECO 151 or Foreign Language	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present* or Regional Geography or Intro to Philosophy or Intro to Logic or Intro to American Politics* or General Psychology I or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	6	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* 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.

MTH 230	Analytical Geometry and Calculus III	5	MATH 2222	Calculus III Applies to the degree as a required science/engineering elective.	4
MTH 240	Differential Equations	3	MATH 3304	Elementary Differential Equations Applies to the degree as a required science/engineering elective.	3
CHM 106	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) Applies to the degree as a required science/engineering elective. <small>*CHEM 1510 is not a degree requirement, transfers as general elective credit.</small>	3
GST 101	Intro to Geographic Information Systems	3	GEOLOGY 3811	Fundamentals of Geographic Information Systems Applies to the degree as a required geology/geophysics elective.	3
BIO 111	Introductory Biology I	4	BIO SCI 1113, 1219*	General Biology and Lab* BIO SCI 1113 applies to the degree as a required science elective. BIO SCI 1219 transfers as general elective credit.	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.
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