

St. Louis Community College — Missouri S&T

Chemistry BS

Transfer Guide Effective as of Fall 2024

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 ENG 103	College Composition II or Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Total Hours			Total Hours		
6			9		

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
MTH 230	Analytical Geometry and Calculus III	5	MATH 2222	Calculus III	4
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 106	General Chemistry II	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	5
PHY 122	Engineering Physics	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
35			30		

Social Sciences

Select up to 9 credit hours to include one course to satisfy Missouri state requirement.

HST 128 or HST 101 or HST 102 or PSC 101	Western Civilization 1500 to Present or US History to 1865 or US History 1865 to Present or Intro to American Politics <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 Missouri state requirement.</small>	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics <small>or other economics</small>	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics <small>or other economics</small>	3
PSY 200	General Psychology Or other psychology	3	PSYCH 1101	General Psychology or other psychology	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			Total Hours		
9			9		

Humanities

Select 6 hours.

ENG 211 or ENG 204 or ENG 231 or ENG 216 or ENG 217	British Literature II or American Literature I or World Literature or Women in Literature or Major Black Writers or other literature	3	ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature II: 1800 to Present or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature or other literature	3
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre or other art, music, or theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video or other art, music, or theatre	3
PHL 101	Intro to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
Humanities	Other fine art, literature, or philosophy	3	Humanities	Other fine art, literature, or philosophy	3
Total Hours			Total Hours		
6			6		

Additional Degree Requirements

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

CHM 206, 210	Organic Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 207, 211	Organic Chemistry II and Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
IS 187 or ESC 101 or IS 167 or IS 267	Java Programming I (4) or Scientific Computer Programming (3) or C++ Programming I (4) or C++ Programming II (4)	3-4	IST 1561 or CS 1971, 1981	Algorithms and Programming in JAVA or Intro to Programming Method and Lab (C++) <small>Will be substituted for CS 1500..</small>	3

Maximum credit hours to be transferred to Missouri S&T degree requirements.

60

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.