

St. Louis Community College — Missouri S&T

Chemistry 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	College Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENG 103	Report Writing		ENGLISH 3560	Technical Writing	
		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
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 II	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
		Total Hours	35	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.

ENG 211 or	British Literature II or		ENGLISH 1212 or	British Literature II: 1800 to Present	
ENG 204 or	American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
ENG 205 or	American Literature II or		ENGLISH 1222 or	American Literature: 1865 to Present or	
ENG 231 or	World Literature or		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or	
HST 101* or	US History to 1865* or	6	HISTORY 1300* or	American History to 1877* or	6
HST 102* or	US History 1865 to Present* or		HISTORY 1310* or	American History Since 1877* or	
ART 100 or	Art Appreciation or		ART 1180 or	Art Appreciation or	
MUS 114 or	Music Appreciation or		MUSIC 1150 or	Music Understanding and Appreciation or	
THT 101	Intro to Theatre		THEATRE 1150	Theatre for Social Change	
				*Satisfies the State of Missouri government requirement.	

Behavioral and Social Sciences

Select 6 hours from at least two specific disciplines.

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

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.

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	Java Programming I (4) or		IST 1561 or	Algorithms and Programming in JAVA or	
ESC 101 or	Scientific Computer Programming (3) or		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
IS 167 or	C++ Programming I (4) or	3-4		Will be substituted for CS 1500..	
IS 267	C++ Programming II (4)				

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.

must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

required to complete all courses on this guide before transferring to Missouri S&T.

Students
Students are not