

St. Charles Community College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2023

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
COM 106	Public Speaking (if required for AA degree)	3	SPMS 1185	Principles of Speech (Not required for the S&T degree. Applies to S&T degree as Free Elective)	3
Total Hours 9			Total Hours 9		

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
MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus III	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	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
Total Hours 35			Total Hours 30		

Social Sciences (Select up to 6 credit hours to include one course to satisfy state requirement)

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 (At least one of these courses is required to satisfy state requirement)	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 (At least one of these courses is required to satisfy state requirement)	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics or other economics course	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics or other economics course	3
PSY 101	Intro to Psychology or other psychology course	3	PSYCH 1101	General Psychology or other psychology course	3
	Other economics, history, political science, sociology, psychology elective.			Other economics, history, political science, sociology, psychology elective.	3
Total Hours 9			Total Hours 9		

Humanities (Select 6 hours)

LIT 250 or LIT 210 or LIT 272 or LIT 223 (required)	English Literature Before 1800 or American Literature From 1620-1865 or World Lit-Ancient World thru Renaissance or African American Literature (or other literature elective; at least one literature course is required)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 1245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or African American Literature (or other literature elective)	3
ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation (or other art) or Music Appreciation (or other music) or Theatre via Video (or other theatre)	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
	Other fine art, literature, or philosophy elective			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.

CHEM 240	Organic Chemistry I	3	CHEM 2210	Organic Chemistry I	4
CHEM 241	Organic Chemistry II	3	CHEM 2220	Organic Chemistry II	4
CHEM 243	Organic Chemistry Lab	2	CHEM 2219,2229	Organic Chemistry I and II Labs	2
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

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.