

St. Charles Community College — Missouri S&T

Chemistry BA Transfer Guide

Effective as of Fall 2020

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	English Composition II	3	ENGLISH 1160	Writing and Research	3
Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)			9-12	Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)	9-12
Total Hours			15-18		

Mathematics and Sciences (Take all courses)

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	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
Total Hours			20		
Total Hours			18		

Humanities

(Select up to 9 hours to include at least 1 fine art, 1 English, and 1 philosophy)

ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video (or other fine art)	3
LIT 250 or LIT 210 or LIT 272 or LIT 223	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)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2245 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
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
See your advisor for course options			Other fine art, literature, or philosophy elective		
Total Hours			9		
Total Hours			9		

Social Sciences

(Select up to 12 hours in two areas, to include History 1100 and 1200)

HIS 145	Western Civ: Ancient and Medieval Heritage	3	HISTORY 1100	Early Western Civilization (required)	3
HIS 146	Western Civ: Modern European Heritage	3	HISTORY 1200	Modern Western Civilization (required)	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
POL 101	American Government	3	POL SCI 1200	American Government	3
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HIS 101	US History to 1877	3	HISTORY 1300	American History to 1877	3
HIS 102	US History Since 1877	3	HISTORY 1310	American History since 1877	3
See your advisor for course options			Other history, economics, political science, psychology, or sociology		
Total Hours			12		
Total Hours			12		

Additional Degree Requirements (Select additional courses to total 60 credit hours)

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
MAT 240	Calculus and Analytical Geometry III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
BIO 105 or BIO 150	Essentials of Biology (3) or General Biology I (5) (or other life science)	3-5	BIO SCI 1113 or BIO SCI 1213, 1219*	General Biology (3) or Principles of Biology (3) and Lab* (2) (or other life science) *Note: BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit.	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.