

# St. Charles Community College — Missouri S&T

## Chemistry BA 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	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)	12		Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)	12
		Total Hours			Total Hours
		18			18

#### Mathematics and Sciences (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
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			Total Hours
		20			18

#### Humanities

(Select up to 9 hours to include at least one literature course.)

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
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
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
		Total Hours			Total Hours
		9			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
		Other history, economics, political science, psychology, or sociology			Other history, economics, political science, psychology, or sociology
		Total Hours			Total Hours
		12			12

#### 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
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

#### 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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at [transfer@mst.edu](mailto:transfer@mst.edu), [transfer@mst.edu](mailto:transfer@mst.edu), or 800-522-0938.