

St. Charles Community College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification 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
COM 106	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours			Total Hours
		9			9

Social Sciences (Take all courses)

HIS 101 or	US History to 1877 or	3	HISTORY 1300 or	American History to 1877 or	3
HIS 102	US History Since 1877		HISTORY 1310	American History since 1877	
POL 101	American Government	3	POL SCI 1200	American Government	3
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours			Total Hours
		9			9

Humanities (Take all courses)

ART 1001 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUS 111 or	Music Appreciation or		MUSIC 1150 or	Music Appreciation or	
THE 122	Intro of Theatre		THEATRE 1190	Theatre via Video	
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
LIT 210 or	American Literature From 1620 - 1865 or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or	3
LIT 220	American Literature From 1865 - Present		ENGLISH 1222	American Literature 1865 to Present	
		Total Hours			Total Hours
		9			9

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
BIO 105	Essentials of Biology	3	BIO SCI 1113	General Biology	3
		Total Hours			Total Hours
		23			21

Additional Degree Requirements (Select up to 16 hours)

PHY 250	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 251	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
MAT 215	Probability Theory	4	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
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
		Total Hours			Total Hours
		16			16

Teacher Certification Requirements (Take all courses)

EDU 212	Foundations of Education in a Diverse Society	3	EDUC 1040	Perspectives in Education	2
EDU 240	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 250	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child	3
		Total Hours			Total Hours
		12			11

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BA in Chemistry.

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

75

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.