

St. Charles Community College — Missouri S&T
Chemistry BA with Secondary Education Teacher Certification Transfer Guide
 Effective as of Fall 2017

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
SPE 101	Oral Communications	3	SPMS 1185	Principles of Speech	3
Total Hours			9		

Social Sciences (Take all courses)

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

Humanities (Take all courses)

ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Introduction of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
LIT 210 or LIT 220	American Literature From 1620 - 1865 or American Literature From 1865 - Present	3	ENGLISH 1221 or ENGLISH 1222	American Literature: 1600 to 1865 or American Literature 1865 to Present	3
Total Hours			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 and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II and Lab	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			23		

Additional Degree Requirements (Select up to 19 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
CHM 240, 243	Organic Chemistry I and Lab	3	CHEM 2210, 2219,	Organic Chemistry I and Lab I & II	5
CHM 241	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	3
Total Hours			15		

Teacher Certification Requirements (Take all courses)

EDU 211	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDU 240	Educational Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3
PSY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
Total Hours			9		

***Teacher certification notes:** Passing scores on MoGEA and MoCA are required. Students must maintain a minimum 2.75 cumulative GPA and a minimum 3.0 content GPA. Students completing this program will have a BA degree in Chemistry with secondary education teacher certification.

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.