

St. Louis Community Colleges — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

St. Louis Community Colleges

Missouri S&T

Communication Skills (Take all courses)

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	College Composition II	3	ENGLISH 1160	Writing and Research	3
COM 107	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

Social Sciences (Take all courses)

HST 101 or	US History to 1865 or	3	HISTORY 1300 or	American History to 1877 or	3
HST 102	US History 1865 to Present		HISTORY 1310	American History since 1877	
PSC 101	Intro to American Politics	3	POL SCI 1200	American Government	3
PSY 200	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			9		

Humanities (Take all courses)

ART 100 or	Art Appreciation or		ART 1180 or	Art Appreciation or	
MUS 114 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or	3
THT 101	Intro to Theatre		THEATRE 1190	Theatre Appreciation	
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
ENG 204 or	American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
ENG 205 or	American Literature II or	3	ENGLISH 1222	American Literature 1865 to Present	3
ENG 206	American Literature After 1945				
Total Hours			Total Hours		
9			9		

Mathematics and Sciences (Take all courses)

MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 106	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 111 or	Intro to Biology I (4) or		BIO SCI 1113, 1219* or	General Biology (3) and Lab* (2) 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
BIO 140	Principles of Biology I (5) (or other life science)	4-5	BIO SCI 1213, 1219*		
Total Hours			Total Hours		
24			21		

Additional Degree Requirements (Select up to 16 hours)

PHY 122	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHM 206, 210	Organic Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 207, 211	Organic Chemistry II and Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
Total Hours			Total Hours		
16			16		

Teacher Certification Requirements (Take all courses)

EDU 211 or	Foundations of Education or	3	EDUC 1040	Perspectives in Education	2
EDU 220	Teaching Profession with Field Exp		PSYCH 2300 (EDUC 2102)	Educational Psychology	3
EDU 227	Educational Psychology	3	PSYCH 3310	Developmental Psychology	3
PSY 205	Human Growth and Development	3	PSYCH 4310	Psychology of the Exceptional Child	3
EDU 219	Education of Exceptional Learners	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.