

State Fair Community College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

State Fair Community College

Missouri S&T

Communication Skills (Take all courses)

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

Social Sciences (Take all courses)

HIST 101 or HIST 102	US History Before 1877 or US History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
POLS 101	American/National Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			9		

Humanities (Take all courses)

ART 101 or MUS 101 or THEA 107	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	3
PHIL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
LIT 107	American Literature	3	ENGLISH 1221	American Literature: 1600 to 1865	3
Total Hours			Total Hours		
9			9		

Mathematics and Sciences (Take all courses)

MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	4
CHEM 123	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 124	General Chemistry II with Lab	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 100 or BIO 112 or BIO 125	General Biology (3) or General Biology with Lab (5) or Biology I with Lab (5)	3-5	BIO SCI 1113 or BIO SCI 1113,1219* or BIO SCI 1113,1219*	General Biology (3) (no lab) or General Biology (3) and Lab* (2) or General Biology (3) and Lab* (2)	3-5
Total Hours			Total Hours		
23-25			21-23		

*Note: BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit.

Additional Degree Requirements (Select up to 16 hours)

PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 119	General Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
CHEM 221	Organic Chemistry I with Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 222	Organic Chemistry II with Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
Total Hours			Total Hours		
16			16		

Teacher Certification Requirements (Take all courses)

EDUC 209	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDUC 220	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
EDUC 228	Education of Exceptional Learners Pre K-12	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.