

# Johnson County Community College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

### Johnson County Community College

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122	Composition II	3	ENGLISH 1160	Writing and Research	3
COMS 121	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

#### Social Sciences (Take all courses)

HIST 140 or HIST 141	U.S. History to 1877 or U.S. History since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
POLS 124	American National Government	3	POL SCI 1200	American Government	3
PSYC 130	Intro to Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			9		

#### Humanities (Take all courses)

MUS 121 or MUS 126 or THEA 120	Intro to Music Listening or Intro to World Music or Intro to Theatre	3	MUSIC 1150 or THEATRE 1190	Music Understanding and Appreciation or Theatre via Video	3
PHIL 121	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENGL 246 or ENGL 247	American Literature I or American Literature II	3	ENGLISH 1221 or ENGLISH 1222	American Literature: 1600 to 1865 or American Literature 1865 to Present	3
Total Hours			Total Hours		
9			9		

#### Mathematics and Sciences (Take all courses)

MATH 241 and MATH 242	Calculus I and Calculus II	10	MATH 1214 and MATH 1215	Calculus I and Calculus II	8
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131, 132	General Chemistry II and Lab	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113,1219	General Biology and Lab	4
Total Hours			Total Hours		
24			22		

#### Additional Degree Requirements

**Select additional courses to total up to the maximum transfer credit hours shown below.**

PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 220	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 221	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4

#### Teacher Certification Requirements (Take all courses)

EDUC 121	Introduction to Teaching	3	EDUC 1040	Perspectives in Education	2
PSYC 225	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSYC 215	Child Development	3	PSYCH 3310	Developmental Psychology	3
Total Hours			Total Hours		
9			8		

**Professional Requirements for Teacher Education Program: Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.**

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

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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.