

# Johnson County Community College — Missouri S&T

## Chemistry BA Transfer Guide

Effective as of Fall 2017

### Partner School

### 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
Foreign Language	Elementary I, Elementary II, and Intermediate I in a single foreign language (Must take all 3 courses in: German, Spanish, French, Russian, Arabic, Chinese or Japanese)	12		Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)	12
Total Hours			Total Hours		
18			18		

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

MATH 241 & MATH 242	Calculus I and Calculus II	10	MATH 1214 & MATH 1215	Calculus for Engineers I and Calculus II for Engineers	4
CHEM 122 or CHEM 124,125	Principles of Chemistry or General Chemistry I Lecture and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131,132	General Chemistry II and Lab	4	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	5
CHEM 220	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	5
CHEM 221	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II and Lab	5
Total Hours			Total Hours		
19			24		

#### Humanities

(Select up to 12 hours to include at least 1 fine art, 1 English, and 1 philosophy)

MUS 121 or THEA 120	Introduction to Music Learning or Introduction to Theater	3	MUSIC 1150 or THEATRE 1190	Music Appreciation or Theatre Appreciation or other fine art	3
ENGL 236	British Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800 or other literature	3
PHIL 121	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy or other philosophy	3
	<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective	3
Total Hours			Total Hours		
3			12		

#### Social Sciences

(Select up to 12 hours to include History 1100 and 1200)

HIST 125 or HIST 151	Western Civilization: Readings and Discussion I or World History I: Traditional World	3	HISTORY 1100	Early Western Civilization (required)	3
HIST 126	Western Civilization: Readings and Discussion II	3	HISTORY 1200	Modern Western Civilization (required)	3
ECON 231 or ECON 230	Economics II or Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
POLS 122 or POLS 124	Political Science or American National Government	3	POL SCI 1200	American Government	3
PSYC 130	Introduction to Psychology	3	PSYCH 1101	General Psychology	3
HIST 140	U.S. History to 1877	3	HISTORY 1300	American History to 1877	3
HIST 141	U.S. History since 1877	3	HISTORY 1310	American History since 1877	3
	<i>See your advisor for course options</i>			Other economics, political science, psychology, or sociology	3
Total Hours			Total Hours		
6			12		

#### Additional Degree Requirements (Select additional courses to total 60 credit hours)

MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
BIOL 121	Introductory Biology for Non-Majors	4	BIO SCI 1113	General Biology or other life science	3
Total Hours			Total Hours		
13			13		

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

**60**

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.