

Johnson County Community College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2017

<u>Partner School</u>		<u>Missouri S&T</u>			
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
SPD 121	Public Speaking (Required for AA degree)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as Free Elective)	3
Total Hours			Total Hours		
9			9		
Mathematics and Science (Take all courses)					
MATH 241 &	Calculus I and	10	MATH 1214 &	Calculus for Engineers I and	4
MATH 242	Calculus II		MATH 1215	Calculus II for Engineers	
MATH 243	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
CHEM 122 or	Principles of Chemistry or	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 124,125	General Chemistry I Lecture and Lab				
CHEM 131,132	General Chemistry II and Lab	4	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	3
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
34			24		
Social Sciences (Select up to 9 credit hours to include one course to satisfy state requirement)					
HIST 126 or	Modern Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
HIST 140 or	U.S. History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIST 141 or	U.S. History since 1877 or		HISTORY 1310 or	American History Since 1877 or	
POLS 122 or	Political Science or		POL SCI 1200	American Government	(At least
POLS 124	American National Government			one of these courses is required to satisfy state requirement)	
	(At least one of these courses is required to satisfy state requirement)				
ECON 231 or	Economics II or	3	ECON 1100 or	Principles of Microeconomics or	3
ECON 230	Economics I		ECON 1200	Principles of Macroeconomics	
PSYC 130	Introduction to Psychology	3	PSYCH 1101	General Psychology	3
	<i>See your advisor for course options</i>			Other economics, history, political science, sociology, psychology elective.	3
Total Hours			Total Hours		
9			9		
Humanities (Select 9 credit hours to include at least one literature course)					
ENGL 236	British Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800 or other literature	3
MUS 121 or	Introduction to Music Learning or		MUSIC 1150 or	Music Appreciation or	
THEA 120	Introduction to Theater	3	THEATRE 1190	Theatre Appreciation or other fine art	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	
Total Hours			Total Hours		
6			6		
Additional Degree Requirements (Select up to 15 hours)					
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
CS 200 or	Concepts of Programming Algorithms/C++ or		CS 1971, 1981 or	Intro to Programming Method and Lab (C++) or	3
CS 235	Object Oriented Programming/C++	4	CS 1570, 1580	Intro to Programming and Lab (C++)	4
BIOL 121	Introductory Biology for Non-Majors	4	BIO SCI 1113	General Biology (Required for pre-med or bio-chem emphases. Otherwise, applies to S&T degree as free elective)	3
Total Hours			Total Hours		
15			15		
Maximum credit hours to be transferred to Missouri S&T degree requirements.					
71					

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.