



## Transfer Guide Associate of Science BS-Chemistry



JCCC—Fall Semester 1	Hrs	JCCC—Spring Semester 1	Hrs	JCCC—Summer Semester 1	Hrs
CHEM 124/125 Gen Chemistry I & lab	4	CHEM 131/132 Gen Chemistry II & lab	5		
MATH 173 Precalculus	5	MATH 241 Calculus I	5		
ENGL 121 Composition I	3	Social and Behavioral Sciences course	3		
Humanities Course	3	ENGL 122 Comp II OR ENGL 123 Tech Writing	3		

JCCC—Fall Semester 2	Hrs	JCCC—Spring Semester 2	Hrs	UMKC—Summer Semester 2	Hrs
MATH 242 Calculus II	5	MATH 243 Calculus III	5		
PHYSICS 220 Engineering Physics I	5	PHYSICS 221 Engineering Physics II	5		
COMS 120 or 121 Communication course	3	Cultural Diversity Course	3		
Humanities Course	3	Social and Behavioral Sciences course	3		

UMKC—Fall Semester 3	Hrs	UMKC—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
CHEM 321/321L Organic Chemistry I/Lab	4	CHEM 322R/322L Organic Chemistry II/Lab	4		
CHEM 431 Physical Chemistry I	3	CHEM 432 Physical Chemistry II	3		
BIOLOGY 250 or LIFE-SCI 201 Careers I	1	CHEM 437WI Experiment Physical Chemistry I	3		
CHEM 341WI Analytical Chemistry I	4	General Elective (300/400if needed)	3		
General Elective	3				

UMKC—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4	Hrs
CHEM 382 Inorganic And Organic Synthesis	2	CHEM 442R Analytical Chemistry I: Instrumental Analysis	3		
CHEM 367 Bioorganic Chemistry or BIOLOGY 441 Biochemistry	3	CHEM 451R Inorganic Chemistry	3		
CHEM 471 Introduction To Polymer Chemistry	3	General Elective	3		
CHEM/BIOL/PHYSICS/MATH 300/400Major Elective	3	General Elective	3		
CHEM 410 Chemical Literature	1				

\*To be exempt from the UMKC Essentials or Missouri Core 42 general education requirements, JCCC students are encouraged to complete the Associate of Science degree at JCCC.

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