



## Transfer Guide Associate of Science BS-Biology



JCCC—Fall Semester 1		Hrs	JCCC—Spring Semester 1		Hrs	JCCC—Summer Semester 1		Hrs
BIOL 135 Prin of Cell & Molecular Biology	4		BIOL 150 Biology of Organisms	5				
MATH 173 Precalculus	5		CHEM 124/125 Gen Chemistry I & lab	5				
ENGL 121 Composition I	3		Social & 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 241 Calculus I	5		BIOL 205 General Genetics	4				
CHEM 131/132 Gen Chemistry II & lab	5		MATH 242 Calculus II OR MATH 181 Statistics	3-5				
COMS 120 or 121 Communication course	3		Cultural Diversity Course	3				
Humanities Course	3		Social & Behavioral Sciences Course	3				

UMKC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
BIOLOGY 202 Cell Biology	3		CHEM 322R/322L Organic Chemistry II/Lab	4				
BIOLOGY 250 or LIFE-SCI 201 Careers I	1		PHYSICS 220 General Physics II or PHYSICS 250 Physics for Scientists and Engineers II	4-5				
CHEM 321/321L Organic Chemistry I/Lab	4		BIOLOGY Laboratory Elective	2				
PHYSICS 210 General Physics I or PHYSICS 240 Physics for Scientists and Engineers I	4-5		BIOLOGY 3XX/4XX Major Elective	3				
General Elective	3							

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
BIOLOGY 441 Biochemistry	3		BIOLOGY 498WI or LIFE-SCI 497 or LIFE-SCI 499	3				
BIOLOGY Major Elective	3		BIOLOGY 3XX/4XX Major Elective	3				
BIOLOGY 3XX/4XX Major Elective	3		BIOLOGY 3XX/4XX Major Elective	3				
BIOLOGY 3XX/4XX Laboratory Elective	3		BIOLOGY 3XX/4XX Major Elective	3				
General Elective (3XX/4XX if needed)	3		General Elective (3XX/4XX if needed)	3				

**Note:** 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.

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