



## Transfer Guide Associate of Science BS-Computer Science



JCCC—Fall Semester 1		Hrs	JCCC—Spring Semester 1		Hrs	JCCC—Summer Semester 1		Hrs
CS 200 Concepts of Programming Algorithms C++	4		ENGL 122 Composition II	3				
ENGL 121 Composition I	3		MATH 242 Calculus II	5				
MATH 241 Calculus I	5		CS 235 Object Oriented Programming Using C++	4				
Humanities Course	3		Social Sciences & Economics Course	3				

JCCC—Fall Semester 2		Hrs	JCCC—Spring Semester 2		Hrs	UMKC—Summer Semester 2		Hrs
COMS 120 or 121	3		CS 211 Discrete Structures II*	3				
PHYS 220 Engineering Physics I	5		Life or Physical Science**	3-5				
CS 210 Discrete Structures I*	3		Cultural Diversity Course	3				
Humanities Course	3		Social Sciences & Economics Course	3				
			MATH 181 Statistics	3				

UMKC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
CS 281R Computer Architecture & Organization	3		CS 394R Applied Probability	3				
CS 303 Data Structures	3		CS 404 Intro to Algorithms & Complexity	3				
CS 304 Ethics & Professionalism	3		CS 431 Operating Systems	3				
CS 320 Data Communications & Networking	3		CS 470 Database Management	3				
MATH 300 Linear Algebra	3		CS 361 Intro to Cybersecurity	3				

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
CS 441 Programming Language Design	3		CS 451R Software Engineering Capstone	3				
CS 449 Foundations of Software Development	3		CS 461 Intro to Artificial Intelligence	3				
CS Elective (300/400 level)	3		CS Elective (400 level)	3				
CS Elective (300/400 level)	3		CS/E&C ENGR/INFO-TEC Elective	3				
General Elective (as needed)	3		CS 456 Human Computer Interface	3				

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.

\*Students must complete both Discrete Structures courses at JCCC in order to receive credit at UMKC.

\*\*Acceptable courses include BIOL 135, CHEM 124, GEOS 130, GEOS 140, PHYS 221.

UMKC School of Science & Engineering · SS&C Student Services Center  
336 Flarsheim Hall · 5110 Rockhill Road  
816-235-2399 · sse@umkc.edu · sse.umkc.edu

Johnson County Community College  
12345 College Boulevard · Overland Park KS 66210  
913-469-8500 · advise@jccc.edu · jccc.edu