



Transfer Guide
Associate of Science
BS-Electrical & Computer Engineering



JCCC—Fall Semester 1		Hrs	JCCC—Spring Semester 1		Hrs	JCCC—Summer Semester 1		Hrs
CHEM 124/125 General Chemistry I/Lab OR BIOL 121 Biology of Non-Majors		4-5	ENGL 122 Composition II		3			
ENGL 121 Composition I		3	MATH 242 Calculus II		5			
MATH 241 Calculus I		5	PHYS 220 Engineering Physics I		5			
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 200 Concepts of Programming Algorithms C++		4			
MATH 243 Calculus III		5	MATH 254 Differential Equations		4			
PHYS 221 Engineering Physics II		5	Social & Behavioral Sciences course		3			
Humanities Course		3	Cultural Diversity course		3			

UMKC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
ME 130 Engineering Graphics		3	ECE 228/229 Computer Design/Lab		4			
ECE 226/227 Logic Design/Lab		4	ECE 276/277 Circuit Theory I/Lab		4			
ECE 341R Applied Engineering Analysis II		3	CS 394R Applied Probability		3			
CS 304 Ethics & Professionalism		3	ECE 348 Discrete Math & Probability		3			

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
ECE 334 Semiconductors & Devices		3	ECE 302/303 Electromag Waves & Fields/Lab		4			
ECE 376/377 Circuit Theory II/Lab		4	ECE 330/331 Electronic Circuits/Lab		4			
ECE 380/381 Signals & Systems/Lab		4	ECE 428R/429 Embedded Systems/Lab		4			
ECE 426/427 Microcomputer Architecture/Lab		4	ECE 466 Power Systems I		3			

UMKC—Fall Semester 5		Hrs	UMKC—Spring Semester 5		Hrs	UMKC—Summer Semester 4		Hrs
ECE 358 or 474 Control or Comm Systems		3	ECE 403 Senior Design II		2			
ECE 402 Senior Design I		3	ECE Elective 400 level		3			
E&C-ENGR 486 Pattern Recognition		3						
ECE Elective 400 level		3						
ECE Elective 400 level		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.

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