



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		
Arts & Humanities Course	3	Social & Behavioral Sciences Course	3		

JCCC—Fall Semester 2	Hrs	JCCC—Spring Semester 2	Hrs	JCCC—Summer Semester 2	Hrs
COMS 120 or 121 Communications Course	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		
Arts & Humanities Course	3	Cultural Diversity Course	3		

UMKC—Fall Semester 3	Hrs	UMKC—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
MEC-ENGR 130 Engineering Graphics	3	E&C-ENGR 228/229 Computer Design/Lab	4		
E&C-ENGR 226/227 Logic Design/Lab^	4	E&C-ENGR 276/277 Circuit Theory I/Lab	4		
E&C-ENGR 341R Applied Eng Analysis II	3	E&C-ENGR 348 Discrete Math & Probability	3		
COMP-SCI 304 Ethics & Professionalism	3				

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

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

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

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