

Transfer Guide

Associate of Engineering with Core 42 BS-Electrical & Computer Engineering

(entering UMKC Fall 2020 or later)

MCC—Fall Semester 1		Hrs	MCC—Spring Semester 1		Hrs	MCC—Summer Semester 1		Hrs
CHEM 111 General College Chemistry I	5		ENGL 102 Composition & Reading II	3		Core 42 Humanities/Arts Requirement	3	
ENGL 101 Composition & Reading I	3		MATH 190 Analytic Geometry & Calculus II	5				
ENGR 101 Intro to Engineering Profession	1		PHYS 220 Engineering Physics I	5				
MATH 180 Analytic Geometry & Calculus I	5		AE History & Social Sciences Course**	3				
AE Humanities Course*	3							

MCC—Fall Semester 2		Hrs	MCC—Spring Semester 2		Hrs	MCC—Summer Semester 2		Hrs
COMM 100 Fundamentals of Speech (AE Comm)	3		ENGR 230 Dynamics	3		Core 42 Social/Behavioral Sciences Requirement	3	
MATH 210 Analytic Geometry & Calculus III	5		ETEC 152 Engineering Graphics & CADD I	5				
PHYS 221 Engineering Physics II	5		MATH 230 Differential Equations	3				
ENGR 229 Statics	3		AE History and Social Science Course***	3				
			AE Elective	3				

MCC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
ENGR 204 Programming for Eng & Sci	3		ECE 217 Engineering Computation	2				
ENGR 233 Circuit Analysis I	4		ECE 226/227 Logic Design/Lab	4				
ENGR 234 Circuit Analysis Lab	1		ECE 341R Applied Engineering Analysis II	3				
Core 42 Humanities/Arts Requirement	3		ME 131 Engineering Graphics	1				
Core 42 Elective	2		CS 304WI Ethical Issues in Comp & Engr.	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 420 Advanced Engineering Computation	2				
ECE 426/427 Microcomputer Architecture/Lab	4		ECE 428R/429 Embedded Systems/Lab	4				
			ECE 466 Power Systems I	3				

UMKC—Fall Semester 5		Hrs	UMKC—Spring Semester 5		Hrs	UMKC—Summer Semester 5		Hrs
CS 394R Applied Probability	3		ECE 228/229 Computer Design/Lab	4				
ECE 358 or 474 Control or Comm Systems	3		ECE 403 Senior Design II	1				
ECE 402 Senior Design I	2		ECE 4XX ECE Elective	3				
ECE 4XX ECE Elective	3		ECE 4XX ECE Elective	3				
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*Acceptable courses include ART 108, ART 150, ART 151, ENGL 214, ENGL 216, ENGL 240, ENGL 254, ENGL 262, HIST 133, HIST 134, MUSI 108, MUSI 160, PHIL 100, THEA 106

**Acceptable courses include HIST 120, HIST 121, POLS 136

***Acceptable courses include HIST 120, HIST 121, ECON 210, ECON 211, POLS 136

Students should consult with an academic advisor to be sure that courses for the MDHE Core 42 satisfy the requirements before enrolling.