



Transfer Guide
Core 42 with ECE Prerequisites
BS-Electrical & Computer Engineering
(entering UMKC Fall 2021 or later)



MCC—Fall Semester 1	Hrs	MCC—Spring Semester 1	Hrs	MCC—Summer Semester 1	Hrs
BIO 101 or CHEM 111 General Bio or Chem	5	ENGL 102 Composition & Reading II	3		
ENGL 101 Composition & Reading I	3	MATH 190 Analytic Geometry & Calculus II	5		
Core 42 Humanities/Arts Requirement	3	PHYS 220 Engineering Physics I	5		
MATH 180 Analytic Geometry & Calculus I	5	Core 42 Social/Behavioral Sciences Requirement	3		

MCC—Fall Semester 2	Hrs	MCC—Spring Semester 2	Hrs	MCC—Summer Semester 2	Hrs
COMM 100 Fundamentals of Speech	3	Core 42 Humanities/Arts 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		
Core 42 Humanities/Arts Requirement	3	Core 42 Social/Behavioral Sciences Requirement	3		

MCC—Fall Semester 3	Hrs	UMKC—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
CSIS 123 Programming Fundamentals	3	ECE 226/227 Logic Design/Lab	4		
ENGR 233 Circuit Analysis I	4	ECE 341R Applied Engineering Analysis II	3		
ENGR 234 Circuit Analysis Lab	1	ME 131 Engineering Graphics	1		
Core 42 Social/Behavioral Sciences Requirement	3	CS 304WI Ethical Issues in Comp & Engr.	3		
Core 42 Elective	2	CS 394R Applied 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 5	Hrs
ECE 358 or 474 Control or Comm Systems	3	ECE 228/229 Computer Design/Lab	4		
ECE 402 Senior Design I	3	ECE 403 Senior Design II	2		
ECE 416 or 486 Neural Systems or Pattern Rec.	3	ECE 4XX ECE Elective	3		
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Students should consult with an academic advisor to be sure that courses for the MDHE Core 42 satisfy the requirements before enrolling.

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