

## Associate of Engineering to Bachelor of Science in Electrical & Computer Engineering – 5 Year Plan

Metropolitan Community College			University of Missouri - Kansas City		
FALL Semester - 1			SPRING Semester - 3		
ENGR 101	Intro to the Profession	1	ECE 228	Intro to Computer Design	3
ENGR 113	Engr. Design and Microcomputer Applications	3	ECE 229	Intro to Computer Design Lab	1
MATH 180	Analytic Geometry and Calculus I	5	ECE 341R	Applied Engineering Analysis II	3
CHEM 111	General College Chemistry I or Biology	5	ECE 217	Engineering Computation	2
		14	CS 394R	Applied Probability	3
SPRING Semester - 1			FALL Semester - 4		
MATH 190	Analytic Geometry and Calculus II	5	ECE 334	Semiconductors Devices	3
PHYS 220	Engineering Physics I	5	ECE 376	Circuit Theory II	3
ENGL 101	Composition and Reading I	3	ECE 377	Circuit Theory II	1
		13	ECE 380	Signals & Systems	3
FALL Semester - 2			ECE 381	Signals & Systems Lab	1
MATH 210	Analytic Geometry and Calculus III	5	ECE 426	Microcomputer Architecture	3
PHYS 221	Engineering Physics II	5	ECE 427	Microcomputer Architecture Lab	1
ENGL 102	Composition and Reading II	3			15
		13			
SPRING Semester - 2			SPRING Semester - 4		
MATH 230	Differential Equations	3	ECE 302	Electromagnetics Waves & Fields	4
ENGR 229	Statics	3	ECE 330	Electronic Circuits	3
CSIS 123	Programming Fundamentals	3	ECE 331	Electronic Circuits Lab	1
ENGR 233	Circuit Analysis I	4	ECE 420	Advanced Engineering Computation	2
ECE 277	Circuit Theory Lab I (at UMKC)	1	ECE 428R	Embedded Systems	3
		14	ECE 429	Embedded Systems Lab	1
FALL Semester - 3			ECE 466	Power Systems I	3
ENGR 230	Dynamics	3			17
	FOCUS C: Constitution Requirement	3	FALL Semester - 5		
	Focus A: Arts and Humanities	3	ECE 358/474	Intro Control/Comm Systems	3
ENGR 204	Programming for Engineers and Scientists	3	ECE 402	Senior Design I	2
ECE 226	Logic Design (at UMKC)	3	ECE 4XX	Senior Area Elective	3
ECE 227	Logic Design Lab (at UMKC)	1	ECE 130	Engineering Graphics	3
		16	ECE 4XX	Senior Area Elective	3
					14
			SPRING Semester - 5		
			ECE 4XX	Senior Area Elective	3
			ECE 4XX	Senior Area Elective	3
			ANCH 308	Ethical Issues in Computing and Engineering	3
			DISC 300	Discourse III	3
			ECE 403	Senior Design II	1
					13