

## Associate of Science in Engineering to Bachelor of Science in Civil Engineering – 4 Year Plan

Metropolitan Community College			University of Missouri - Kansas City		
FALL Semester - 1			FALL Semester - 3		
MATH 180	Analytic Geometry and Calculus I	5	CIV-ENGR 319	Engineering Computation & Statistics	3
ENGR 101	Intro to Engineering Profession	1	CIV-ENGR 335	Soil Mechanics	3
ENGR 113	Engineering Design Microcomputer Apps	3	CIV-ENGR 319	Structural Analysis	4
ENGL 101	Composition and Reading I	3	CIV-ENGR 351	Fluid Mechanics	3
CHEM 111	General College Chemistry I	5	CIV-ENGR 467	Construction Management	3
		17			16
SPRING Semester - 1			SPRING Semester - 3		
MATH 190	Analytic Geometry and Calculus II	5	CIV-ENGR 323	Steel Design	3
PHYS 220	Engineering Physics I	5	CIV-ENGR 342	Water and Wastewater	3
ENGL 102	Composition and Reading II	3	CIV-ENGR 357	Engineering Hydraulics	3
ME 130	Engineering Graphics (at UMKC)	3	CIV-ENGR 378WI	CE Materials	3
		16	CIV-ENGR 318	GIS for Engineers	3
SUMMER Semester - 1					15
	Humanities Elective	3	FALL Semester - 4		
	History and Social Sciences	3	CIV-ENGR 411	System Design I	2
		6	CIV-ENGR 422WI	Reinforced Concrete	3
FALL Semester - 2			CIV-ENGR 432	Foundation Engineering	3
MATH 210	Analytic Geometry and Calculus III	5	CIV-ENGR 497	Engineering Hydrology	3
PHYS 221	Engineering Physics II	5	CIV-ENGR 3XX/4XX	Elective	3
ENGR 229	Statics	3			14
ENGR 223	Thermodynamics and Heat Transfer	4	SPRING Semester - 4		
		17	ANCH 311	Senior Design II	3
SPRING Semester - 2			DISC 300	Civic and Community Engagement	3
MATH 230	Differential Equations	3	CIV-ENGR 481	Highway and Traffic Engineering	3
ENGR 204	Programming for Engineers & Scientists	3	CIV-ENGR 4XX	Elective	3
ENGR 230	Dynamics	3	CIV-ENGR 4XX	Elective	3
ENGR 233	Circuit Analysis I	4			15
ENGR 240	Mechanics of Materials	3			
		16			
SUMMER Semester - 2					
CIMM 101	Shop Safety	1			
	Choose two: CIMM 102, 103, or WELD 100	2			
		3			