

Transfer Guide
Associate of Engineering with Core 42
BS-Mechanical 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		CIMM 101 Machine Shop Safety	1		COMM 100 Fundamentals of Speech (AE Comm)	3	
ENGL 101 Composition & Reading I	3		ENGL 102 Composition & Reading II	3				
ENGR 101 Intro to Engineering Profession	1		MATH 190 Analytic Geometry & Calculus II	5				
MATH 180 Analytic Geometry & Calculus I	5		PHYS 220 Engineering Physics I	5				
			AE Humanities Course*	3				

MCC—Fall Semester 2		Hrs	MCC—Spring Semester 2		Hrs	MCC—Summer Semester 2		Hrs
ENGR 229 Statics	3		ENGR 204 Programming for Eng & Sci	3		ENGR 240 Mechanics of Materials	3	
MATH 210 Analytic Geometry & Calculus III	5		ENGR 230 Dynamics	3				
PHYS 221 Engineering Physics II	5		MATH 230 Differential Equations	3				
AE History & Social Sciences Course**	3		Core 42 Humanities/Arts Requirement	3				
			AE History and Social Science Course***	3				

MCC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
ENGR 215 Engineering Statistics & Computation	3		CE 351 Fluid Mechanics	3				
ENGR 223 Thermodynamics & Heat Transfer	4		ECE 217 Engineering Computation	2				
Core 42 Social/Behavioral Sciences Requirement	3		ECE 276/277 Circuit Theory I/Lab^	4				
Core 42 Humanities/Arts Requirement	3		ME 130 Engineering Graphics^	3				
Core 42 Elective	2		ME 273 Engineering Analysis	1				

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
CE 320 Engineering Computation & Statistics	1		ME 352 Mechanical Instruments Lab	2				
ME 324/324L Engineering Materials/Lab	4		ME 353 Heat Transfer/Fluid Mechanics Lab	2				
ME 356 Mechanical Component Design	3		ME 380 Manufacturing Methods	3				
ME 360 Thermal System Design	3		ME 385 System Dynamics	3				
ME 4XX ME Open Elective	3		ME 399 Heat & Mass Transfer	3				

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
ME 492 Mechanical Design Synthesis I	3		ME 306 Computer Aided Engineering	3				
ME 4XX ME Core Elective	3		ME 496WI Mechanical Design Synthesis II	3				
ME 4XX ME Core Elective	3		ME 4XX ME Design Elective	3				
ME 4XX ME Open Elective	3		ME 4XX ME Core Elective	3				

*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 may reverse transfer this course back to MCC to complete the Associate of Engineering degree.