



## Transfer Guide

### Associate in Engineering with Core 42 BS-Biomedical Engineering



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		COMM 100 Fundamentals of Speech (AE Comm)	3	
ENGL 101 Composition & Reading I	3		MATH 190 Analytic Geometry & Calculus II	5		AE Additional Humanities**	3	
ENGR 101 Intro to Engineering Profession	1		PHYS 220 Engineering Physics I	5		AE History and Social Science Course***	3	
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/UMKC—Summer Semester 2		Hrs
ENGR 229 Statics	3		ENGR 204 Programming for Eng & Sci	3		Core 42 Social/Behavioral Sciences Requirement	3	
MATH 210 Analytic Geometry & Calculus III	5		Core 42 Humanities/Arts Requirement	3		BIOL 202 Cell Biology (at UMKC)	3	
PHYS 221 Engineering Physics II	5		ENGR 230 Dynamics	3				
CHEM 112 General Chemistry II	5		BIOL 123 General Biology for Majors I	4				
			MATH 230 Differential Equations	3				

UMKC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
BMD-ENGR 115 Intro to Biomedical Engineering	1		BMD-ENGR 215 3D Modeling & Printing	1				
BIOL 304 Biostatistics I	3		BMD-ENGR 315 Biomed Instrumentation	3				
BIOL 316 Principles of Physiology	3		BMD-ENGR 325 Biomedical Systems Physiology	3				
ECE 380/381 Signals & Systems/Lab	4		ECE 276/277^ Circuit Theory I/Lab	4				
ME 411 Intro to Biomechanics	3		ME 299 Thermodynamics^^	3				

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
ME 492 Mechanical Design Synthesis I	3		BMD-ENGR 495WI Biomedical Capstone Design	3				
ME 406 Intro to Biomaterials	3		Biomedical Elective 300/400 level	3				
BMD-ENGR 335 Biomedical Transport Phenomena	3		Biomedical Elective 300/400 level	3				
BMD-ENGR 415 Bioelectromagnetic & Bioelectricity	3							
Biomedical Elective	3							

\* Can't take ECED 217; EDUC 215 to meet this requirement; they don't transfer as Core 42 to UMKC.

\*\*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.

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

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

UMKC School of Science & Engineering · SS&C Student Services Center  
336 Flarsheim Hall · 5110 Rockhill Road  
816-235-2399 · sse@umkc.edu · http://sse.umkc.edu

Metropolitan Community College  
Blue River · Longview · Maple Woods · Penn Valley  
816-604-1000 · www.mccck.edu/advising