



**Transfer Guide-5 Year Plan (Precalc Start)**  
**Associate of Engineering with Core 42**  
**BS-Civil Engineering**  
*(entering UMKC Fall 2021 or later)*



MCC—Fall Semester 1	Hrs	MCC—Spring Semester 1	Hrs	MCC—Summer Semester 1	Hrs
BIOL 123 or GEOL 101 <sup>^</sup>	5	ENGL 102 OR 215 Comp II OR Technical Writing	3	AE History & Social Sciences Course <sup>**</sup>	3
ENGL 101 Composition & Reading I	3	MATH 180 Analytic Geometry & Calculus I	5		
ENGR 101 Intro to Engineering Profession	1	CHEM 111 General College Chemistry I	5		
MATH 150 Precalculus	5	AE Humanities Course <sup>*</sup>	3		

MCC—Fall Semester 2	Hrs	MCC—Spring Semester 2	Hrs	MCC—Summer Semester 2	Hrs
MATH 190 Analytic Geometry & Calculus II	5	MATH 210 Analytic Geometry & Calculus III	5		
PHYS 220 Engineering Physics I	5	PHYS 221 Engineering Physics II	5		
COMM 100 Fundamentals of Speech (AE Comm)	3	ENGR 229 Statics	3		

MCC—Fall Semester 3	Hrs	MCC—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
ENGR 204 Programming for Eng & Sci	3	ENGR 240 Mechanics of Materials	3		
ENGR 215 Engineering Statistics & Computation	3	MATH 230 Differential Equations	3		
ENGR 223 OR 230 Thermo OR Dynamics <sup>^^</sup>	3-4	AE History and Social Science Course <sup>***</sup>	3		
Core 42 Humanities/Arts Requirement	3	Core 42 Social/Behavioral Sciences Requirement	3		
		Core 42 Humanities/Arts Requirement	3		

UMKC—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4	Hrs
CE 111 First Year Cornerstone	1	ME 130 Engineering Graphics <sup>^^^</sup>	3		
CE 321 Structural Analysis	4	CE 190 Special Topics	1		3
CE 335 Soil Mechanics	3	CE 378WI Civil Engineering Materials	3		
CE 467 Construction Management	3	CE 323 Structural Steel Design	3		
ME 351 Fluid Mechanics	3	CE 497 Engineering Hydrology	3		
CE 113 Engineering Measurements	1				

UMKC—Fall Semester 5	Hrs	UMKC—Spring Semester 5	Hrs	UMKC—Summer Semester 4	Hrs
CE 411 System Design I	3	CE 412 System Design II	3		
CE 422WI Reinforced Concrete	3	CE 342 Intro to Environmental Engineering	3		
CE 432 Foundation Engineering	3	CE 481 Intro to Transportation	3		
CE Interest Area Elective 3XX-4XX	3	CE Interest Area Elective 3XX-4XX	3		
CE Interest Area Elective 3XX-4XX	3				

See Notes on Page 2

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.mcckc.edu/advising

*^To meet the requirements of the Associate of Engineering degree, students must select GEOL 101.*

*^^These are not required courses for Civil Engineering. If you take one or more of these courses, it will count towards CE Interest Area Electives. If none are taken, you will add an additional CE Interest Area Elective to your program of study and you may not have enough credits to complete the Associate of Engineering degree. The AE degree is not required to transfer to UMKC.*

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

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