UMKC School of Science and Engineering

Transfer Guide
Associate in CS with Core 42
BS-Computer Science

MCC Metropolitan Community College

MCC—Fall Semester 1	Hrs		MCC—Spring Semester 1	Hrs		MCC—Summer Semester 1	Hrs
CSIS 123 Programming Fundamentals	3		CSIS 223 Object Oriented Programming	3		ACS Humanities Course*	3
ENGL 101 Composition & Reading I	3		ENGL 102 Composition & Reading II	3			
MATH 180 Analytic Geometry & Calculus I	5		MATH 190 Analytic Geometry & Calculus II	5			
ACS Western Civilization Course	3		PHYS 220 Engineering Physics	5			
COLL 100 First Year Seminar	1						

MCC—Fall Semester 2	Hrs		MCC—Spring Semester 2	Hrs		MCC—Summer Semester 2	Hrs
COMM 100 Fundamentals of Speech	3		ACS American Institutions Course**	3			
MATH 115 Statistics	3		MATH 121 Discrete Structures for Computer Science	3			
CSIS 221 Intro to Comp Architecture	3		Life or Physical Science^^	4-5			
ACS Social Sciences Course	3		Core 42 Social/Behavioral Sciences Requirement	3			
Core 42 Arts/Humanities Requirement	3		Core 42 Elective (if needed)	2			

UMKC—Fall Semester 3	Hrs		UMKC—Spring Semester 3	Hrs		UMKC—Summer Semester 3	Hrs
CS 291 Discrete Structures II^	3		CS 320 Data Communications & Networking	3			
CS 303 Data Structures	3		CS 394R Applied Probability	3			
MATH 300 Linear Algebra	3		CS 431 Operating Systems	3			
CS 304 Ethics & Professionalism	3		CS 470 Database Management	3			
			CS Elective (300/400 level)	3			

UMKC—Fall Semester 4	Hrs		UMKC—Spring Semester 4	Hrs		UMKC—Summer Semester 4	Hrs
CS 404 Intro to Algorithms & Complexity	3		CS 451R Software Engineering Capstone	3			
CS 441 Prog Lang Design & Implementation	3		CS 461 Artificial Intelligence	3			
CS 449 Foundations of Software Engineering	3		CS Elective (300/400 level)	3			
CS 361 Intro to Cybersecurity	3		CS Elective (400 level)	3			
General Elective	3		CS/ECE/Info-Tec Elective	3			

*If taking language courses, students can only take Elementary levels I & II to count for Core 42
^Students may reverse transfer this course back to MCC to complete the Associate in Computer Science degree.
^^ Acceptable courses include BIOL 123, CHEM 111, GEOL 101, PHYS 221

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

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