

## Associate of Computer Science to Bachelor of Science in Computer Science – 4 Year Plan

Metropolitan Community College				University of Missouri - Kansas City		
<b>FALL Semester - 1</b>				<b>FALL Semester - 3</b>		
COLL 100	First Year Seminar	1	MATH 300	Linear Algebra	3	
ENGL 101	Composition and Reading I	3	COMP-SCI 303	Data Structures	3	
CSIS 123	Programming Fundamentals	3	PHYS 221	Engineering Physics II	5	
MATH 150	Precalculus	5	3XX/4XX	CS/ECE/IT Elective	3	
		12	COMP-SCI 394R	Applied Probability	3	
<b>SPRING Semester - 1</b>				<b>SPRING Semester - 3</b>		
ENGL 102	Composition and Reading II	3	COMP-SCI 404	Introduction to Algorithms and Complexity	3	
	Humanities	3	COMP-SCI 431	Introduction to Operating Systems	3	
MATH 180	Analytic Geometry and Calculus I	5	COMP-SCI 371/421A	Networking <b>OR</b> Database Elective	3	
CSIS 223	Object-Oriented Programming	3	3XX/4XX	CS/ECE/IT Elective	3	
		14		General Elective	3	
<b>SUMMER Semester 1</b>						
	Social Science	3			15	
COMM 100	Fundamentals of Speech	3	<b>FALL Semester - 4</b>			
		6	COMP-SCI 420/470	Networking <b>OR</b> Database Elective	3	
<b>FALL Semester - 2</b>				COMP-SCI 441	Programming Language Design & Implementation	3
MATH 190	Analytic Geometry and Calculus II	5	ANCH 308	Ethical Issues in Computing & Engineering	3	
CSIS 141	Discrete Structures for Comp-Sci I	3	DISC 300	Discourse III	3	
PHYS 220	Engineering Physics I	5	COMP-SCI 449	Fund. of Software Engineering	3	
	Humanities Appreciation	3			15	
		16	<b>SPRING Semester - 4</b>			
<b>SPRING Semester - 2</b>				COMP-SCI 451R	Software Engineering	3
COMP-SCI 291	Discrete Structures II (at UMKC)	3	COMP-SCI 461/465R	Intro to AI/Intro to Statistical Learning	3	
CSIS 221	Intro to Computer Architecture	3		General Elective	3	
MATH 115	Statistics	3	3XX/4XX	CS/ECE/IT Elective	3	
BIOL 101/4/6 or CHEM 111	Bio/Chem w/ Lab	5	3XX/4XX	CS/ECE/IT Elective	3	
		14			15	
<b>SUMMER Semester 2</b>						
HIST 133/4	Western Civilization	3				
HIST 120/1 or POLS 136	American Institutions	3				
		6				