

**Dual Degree Program**  
**BS Mathematics**  
**BS Civil Engineering**

UCM—Fall Semester 1	Hrs	UCM—Spring Semester 1	Hrs	UCM—Summer Semester 1	Hrs
ENG 1020 Composition I	3	ENGL 1030 Comp II OR CTE 2060 Tech Writing	3	US/Missouri Constitution Course	3
MATH 1151 Calculus I	5	MATH 1152 Calculus II	5		
Fine Arts Course	3	MATH 2410 Discrete Math	3		
CS 1100 Computer Programming I	3	PHYS 2121 University Physics I	4		
MATH 1040 Intro to Mathematical Science	1	COMM 1000/1050 or MKT 1401	3		

UCM—Fall Semester 2	Hrs	UCM—Spring Semester 2	Hrs	UCM—Summer Semester 2	Hrs
MATH 2153 Calculus III	3	MATH 3151 Differential Equations	3	Social/Behavioral Sciences II Course	3
ACST 2310 Statistics & Data Analysis	3	Natural Science with Lab Course	4	Additional Knowledge Area I Course	3
MATH 3710 Linear Algebra	3	Social/Behavioral Sciences I Course	3		
PHYS 2122 University Physics II	4	Managing Information Course	2		
ENGT 1400 Fundamentals of Eng Design	3	CMGT 2020 Statics**	3		

UCM—Fall Semester 3	Hrs	UCM—Spring Semester 3	Hrs	MCC—Summer Semester 3	Hrs
ACST 3311 Intro to Probability & Statistics	3	MATH 4233 Sci, Hist, Soc Impact of Math	3	ENGR 240 Strength of Materials (at MCC)	3
MATH 4150 Advanced Calculus I	3	MATH 4711 Modern Algebra I	3		
CHEM 1131 General Chemistry I	5	GE Elective Course	3		
MATH 4710 Algebraic Structures	3	BIOL1110 or GEOS1004 – Basic Science	3		
Natural Science Non-Lab Course	3	Free Elective Course	3		

UMKC—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4	Hrs
CE 111 First Year Cornerstone	1	CE 351 Fluid Mechanics*	3		
CE 113 Engineering Measurements	1	CE 378WI CE Materials*	3		
CE 321 Structural Analysis*	4	CE 190 Special Topics	1		
CE 335 Soil Mechanics*	3	CE 342 Intro to Environmental Engineering	3		
CE 467 Construction Management	3	CE 481 Intro to Transportation Engineering	3		

UMKC—Fall Semester 5	Hrs	UMKC—Spring Semester 5	Hrs	UMKC—Summer Semester 1	Hrs
CE 411 System Design I	2	CE 412 System Design II	3		
CE 422WI Reinforced Concrete	3	CE 497 Engineering Hydrology	3		
CE 432 Foundation Engineering	3	CE 323 Structural Steel Design	3		
CE Elective (300-400 level)	3	CE Elective (300-400 level)	3		
CE Elective (300-400 level)	3				

\*Any 9 credit hours of these courses (with grade C or better) will count as math electives in the BS Math degree at UCM.

\*\*CMGT 2020 will only be accepted with completion of MATH 1151 (Calc I).

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