Dual Degree Program
BS Mathematics
BS Mechanical 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 1	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			
			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		ENGT 3600 Applied Thermodynamics***	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
ME 130 Engineering Graphics	3		ME 306 Numerical Analysis*	3			
ME 324 Engineering Materials Lab	4		ME 352 Mechanical Instruments Lab	3			
ME 351 Fluid Mechanics*	3		ME 380 Manufacturing Methods	3			
ME 360 Applied Thermodynamics*	3		ME 385 System Dynamics*	3			
			ME 399 Heat & Mass Transfer/Lab*	4			

UMKC—Fall Semester 5	Hrs		UMKC—Spring Semester 5	Hrs		UMKC—Summer Semester 1	Hrs
ME 492 Mechanical Design Synthesis I	3		ME 496WI Mechanical Design Synthesis II	3			
ME 4XX ME Design Elective	3		ECE 276/277 Circuit Theory I/Lab	4			
ME 4XX ME Technical Elective	3		ME 4XX ME Technical Elective	3			
ME 415 Control Systems Theory I	3		ME 4XX ME Technical Elective	3			
ME 356 Mechanical Component Design*	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)
***ENGT 3600 will only be accepted with completion of MATH 1151 (Calc I)