



Dual Degree Program
BS Manufacturing Engineering Technology
BS Mechanical Engineering



MWSU—Fall Semester 1		Hrs	MWSU—Spring Semester 1		Hrs	UMKC—Summer Semester 1		Hrs
Humanities & Fine Arts Course	3		EGT 215 Computer-Aided Drafting II	3		PHY 240 Physics for Scientists & Engineers I	5	
ENG 104 College Writing/Rhetoric	3		MET 101 Electronic Instrumentation for Manufacturing	3				
MAT 167 Calculus w/Analytical Geometry I	5		MET 111 Manufacturing Processes	2				
MET 100 Electrical Circuits for Manufacturing	3		MET 132 Manufacturing Methods	3				
COM 104 Oral Communication	3		MAT 177 Calculus w/Analytical Geometry II	5				

MWSU—Fall Semester 2		Hrs	MWSU—Spring Semester 2		Hrs	UMKC—Summer Semester 2		Hrs
ENG 108 or ETC 200 College Writing/Res or Intro to Technical Communication	3		MAT 287 Multivariable Calculus*	3		PHY 250 Physics for Sci & Engineers II	5	
EGT 220 Engineering Materials	3		EGT 325 Machine Parts and Mechanical Design	3				
MET 232 Automated Manufacturing	2		MET 260 Mechanics of Materials	4				
MET 242 CNC Machining Processes	2		MET 372 Programmable Logic Controllers	4				
CHE 111/112 General Chemistry I and Lab	6		Humanities & Fine Arts Course	3				

MWSU—Fall Semester 3		Hrs	MWSU—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
MET 315 Mechanical Systems	3		EGT 350 Technical Report Writing	3		MATH 345 Differential Equations	3	
MET 452 Automation & Process Control Tech	4		EGT 370 Financial Aspects of Engineering Projects	3				
EGT 265 Engineering Statics	3		MET 422 Electrical Power Technology	4				
Social & Behavioral Sciences Course	3		Humanities & Fine Arts Course	3				
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UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
ME 324 Engineering Materials Lab	4		ME 306 Numerical Analysis	3				
ME 351 Fluid Mechanics	3		ME 352 Mechanical Instrumentation Lab	3				
ME 360 Applied Thermodynamics	3		ME 380 Manufacturing Methods	3				
MATH 300 Linear Algebra	3		ME 385 System Dynamics	3				
			ME 399/399L Heat Transfer/HT & Fluids Lab	4				

UMKC—Fall Semester 5		Hrs	UMKC Spring Semester 5		Hrs	UMKC—Summer Semester 5		Hrs
ME 492 Mechanical Design Synthesis I	3		ME 469WI Mechanical Design Synthesis II	3				
ME Design Elective	3		ECE 276/277 Circuit Theory I/Lab	4				
ME Technical Elective	3		ME Technical Elective	3				
ME 415 Control Systems Theory I	3		ME Technical Elective**	3				
ME 356 Mechanical Component Design	3							

*Equivalent course can be taken elsewhere if not offered at MWSU.

** Can petition for one upper-level MWSU elective to count as one UMKC ME Technical Elective.

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