

STEM Transfer Guide-Suggested Courses for Mechanical Engineering Students (Cottey College)

Cottey—Fall Semester 1		Hrs	Cottey—Spring Semester 1		Hrs	Summer Semester 1		Hrs
FWS 101 First Year Writing Seminar	3	WRI 102 College Writing	3	<i>Engineering Statics (examples below):</i>		3		
MAT 210 Calculus 1	4	MAT 220 Calculus 2	4	PHYS 250 – Crowder College				
PHY 205 General Physics 1 & Lab	4	PHY 206 General Physics 2 & Lab	4	ENGR 228 or 229 – MCC				
IDS 101 Step Into Cottey	2	Women, Gender & Sexuality Course	3	ENGR 251 – JCCC				
PHE 139 Lifetime Fitness Concepts	3	General Elective	3					

Cottey—Fall Semester 2		Hrs	Cottey—Spring Semester 2		Hrs	Summer Semester 2		Hrs
CHE 210/211 General Chemistry 1 & Lab	5	Social Sciences Course	3	<i>Strength of Materials (example below)</i>		3		
MAT 230 Calculus 3	4	MAT 240 Differential Equations	3	ENGR 240 – MCC				
BIO 107 Principles of Biology I with Lab	4	Fine Arts Course	3					
Humanities Course	3	MAT 130 Elementary Statistics	3					
		General Elective	3					

Transfer-In Guide (Cottey College) – Mechanical Engineering BS (UMKC)

UMKC—Fall Semester 1		Hrs	UMKC—Spring Semester 1		Hrs	UMKC—Summer Semester 1		Hrs
E&C-ENGR 216 Engineering Computation	4	MEC-ENGR 306 Numerical Analysis	3					
MEC-ENGR 324 Engineering Materials	3	MEC-ENGR 352 Mechanical Instruments Lab	3					
MEC-ENGR 324L Engineering Materials Lab	1	MEC-ENGR 380 Manufacturing Methods	3					
MEC-ENGR 351 Fluid Mechanics	3	MEC-ENGR 385 System Dynamics	3					
MEC-ENGR 360 Applied Thermodynamics	3	MEC-ENGR 399/399L Heat Transfer/Lab	4					
MEC-ENGR 130 Engineering Graphics	3							

UMKC—Fall Semester 2		Hrs	UMKC—Spring Semester 2		Hrs	UMKC—Summer Semester 2		Hrs
MEC-ENGR 492 Mechanical Design Synth I	3	MEC-ENGR 496WI Mechanical Design Synth II	3					
MEC-ENGR 4XX Design Elective	3	E&C-ENGR 276/277 Circuit Theory I/Lab	4					
MEC-ENGR 415 Control Systems Theory I	3	MEC-ENGR 4XX Technical Elective	3					
MEC-ENGR 356 Mechanical Component Des	3	MEC-ENGR 4XX Technical Elective	3					

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