

Mechanical Engineering - MA 113 & MA 123 13-14 EIGHT SEMESTER PLAN

YEAR 1

FRESHMAN FALL		STATUS	PREREQ	NOTES
ENG 103	English Composition 1	3		ACT/SAT
GE 101	Introduction to Engineering	1		
ECO 213	Microeconomics	3		
EGR 143	Engineering Graphics	3		
MA 113	College Algebra	3		ACT/SAT
MA 123	Trigonometry	3		ACT/SAT
Total		16		

FRESHMAN SPRING		STATUS	PREREQ	NOTES
ENG 133	Technical Communication	3		ENG 103
MA 134	Calculus I	4		MA 113/123
CH 104	General Chemistry I & Lab	4		MA 113
	Humanities/SS Elective (3)	3		
	Humanities/SS Elective (3)	3		
Total		17		

YEAR 2

SOPHOMORE FALL		STATUS	PREREQ	NOTES
ES 213	Statics	3		co PH 224, co MA 164
ES 233	Engineering Materials	3		CH 104, co PH 224
PH 224	Physics I	4		MA 134
MA 164	Calculus II	4		MA 134
MAE 203	Mech Engineering Analysis	3		MA 134, co EGR 143
Total		17		

SOPHOMORE SPRING		STATUS	PREREQ	NOTES
ES 223	Dynamics	3		ES 213/MA 164/PH 224
ES 243	Solid Mechanics	3		ES 213
MAE 243	MFG Processes and Equip	3		ES 233, co ES 243
ES 313	Thermodynamics	3		MA 164/PH 224/ES 213
SP 203	Effective Speaking	3		ENG 133
MA 213	Calculus III	3		MA 164
Total		18		

YEAR 3

JUNIOR FALL		STATUS	PREREQ	NOTES
MA 313	Linear Algebra	3		MA 213
MAE 323	Thermodynamics II	3		ES 313
MAE 303	Mech Machinery	3		ES 223
MA 393	Prob & Stat	3		MA 213
MA 233	Diff Equations	3		MA 213
MAE 353	Mach Comp Design	3		ES 233/243, co MA 313
Total		18		

JUNIOR SPRING		STATUS	PREREQ	NOTES
ES 253	Electrical Science	3		MA 134/PH 224
MAE 3033	Fluid Dynamics	3		ES 223/313/MA 233
ES 382	Engineering Economics	2		Jr Standing
MA 453/4023	Mech Vib/Sys Dyn & Control	3		MA 233/MAE 303
MA 373	Camd	3		ES 243/EGR 143 co MA 313
PH 234	Physics II + Lab	4		MA 164/PH 224
Total		18		

YEAR 4

SENIOR FALL		STATUS	PREREQ	NOTES
MAE 4053	Mech Design I	3		MAE 303/353/373, ES 313
ES 343	Heat Transfer	3		MA 233/ES313/MAE3033
MAE 463	Measurement Laboratory	3		ES 253/MA 393/MAE 353
	MAE elective*** (3)	3		
	Humanities/SS Elective (3)	3		

SENIOR SPRING		STATUS	PREREQ	NOTES
MAE 4063	Mech Design II	3		MAE 4053
MAE 413	T/F Comp Design	3		ES 343/MAE 333/3033
GE 401	Professional Practice	1		Jr Standing
	MAE elective*** (3)	3		ES 253/MA 393/MAE 353
	MAE elective*** (3)	3		

Total		15			

Total		13			

*** May be an engineering course outside MAE department to fulfill engineering minor