

Subject	Course #	Crosslisted w/	Title	Prerequisites	Course is prerequisite for MAE ____	Quarter/s Usually Offered
MAE	3		Intro to Eng. Graphics and Design	Phys 2A (or 4A)	150, 156A	F, S
MAE	8		Matlab Programming for Eng. Analysis	Math 20A, Math 20B	107	F, W, S
MAE	20		Elements of Materials Science	Phys 2A (or 4A), Chem 6A, Math 20C	160	F, W
MAE	101A		Intro Fluid Mechanics	Phys 2A, Math 20D, Math 20E	101B, 101C	F, W
MAE	101B		Advanced Fluid Mechanics	MAE 101A, MAE 110A	101C	W, S
MAE	101C		Heat Transfer	MAE 101A, MAE 101B, MAE 105	156B, 171A	F
MAE	105		Intro to Mathematical Physics	Phys 2A, Phys 2B, Math 20D	101C, 131B, 143A	F, S
MAE	107		Computational Methods in Engineering	MAE 8, Math 20C, Math 18 or 20F	150 (unless SE 121 is taken)	F, S
MAE	108		Probability and Statistical Methods for Mech. & Env. Engineering	Math 20C, Math 18 or 20F		S
MAE	110A		Thermodynamics	Phys 2C, CHEM 6A	101B	F, W
MAE	130A	SE 101A	Mechanics I: Statics	Math 20C, Phys 2A	130B, 131A, 150, 160	F, W
MAE	130B	SE 101B	Mechanics II: Dynamics	MAE 130A	130C, 156A	W, S
MAE	130C	SE 101C	Mechanics III: Vibrations	Math 20C, Math 18 or 20F, MAE 130B	156B, 171A	F, W
MAE	131A		Solid Mechanics I	Math 20D, MAE 130A	131B, 156A, 160	F, S
MAE	131B		Fundamentals of Solid Mechanics II	MAE 131A, MAE 105	156B (unless MAE 160 is taken), 171A (unless MAE 160 is taken)	W
MAE	140		Linear Circuits	Math 20D, Math 18 or 20F, Phys 2B	171A	F, W
MAE	143A		Signals and Systems	Math 20D, Math 20E, Math 18 or 20F, MAE 105	143B	W
MAE	143B		Linear Control	MAE 143A	156A, 171A	S
MAE	150		Computer-Aided Design	MAE 3, MAE 107, MAE 130A	156A	F, W, S
MAE	156A		Fundamental Principles of Mech. Design I	MAE 3, MAE 130B, MAE 131A, MAE 143B, MAE 150, MAE 170	156B	F, W
MAE	156B		Fundamental Principles of Mech. Design II	MAE 156A in immediately preceding quarter, MAE 101C, MAE 131B or 160, MAE 130C		W, S
MAE	160		Mechanical Behavior of Materials	MAE 20, MAE 130A, MAE 131A	156B (unless MAE 131B is taken), 171A (unless MAE 160 is taken)	W
MAE	170		Experimental Techniques	Phys 2CL	156A, 171A	F, S
MAE	171A		Mechanical Eng. Lab I	MAE 101C, MAE 143B, MAE 160 or MAE 131B, MAE 130C, MAE 140, MAE 170		W

A grade of at least a C- is required in all prerequisites. All courses must be taken for a letter grade (no P/NP)