

Subject	Course #	Title	Prerequisites	Course is prerequisite for MAE ___:	Quarter/s Usually Offered
MAE	2	Intro to Aerospace Eng.		155A	F
MAE	8	Matlab Programming for Eng. Analysis	Math 20A, Math 20B	107	F, W, S
MAE	11 (prev. 110A)	Thermodynamics	Phys 2C, CHEM 6A	101B, 113	F, W
MAE	21	Aerospace Materials Science	Phys 2A (or 4A), Chem 6A, Math 20B	SE 160A, MAE 155A	F
MAE	30A (prev. 130A)	Statics & Intro to Dynamics	Math 20C, Phys 2A	30B (130B), 131A	F, W
MAE	30B (prev. 130B)	Dynamics & Vibrations	MAE 30A (130A)	SE 160A	S
MAE	101A	Intro Fluid Mechanics	Phys 2A, Math 20D, Math 20E	101B, 101C, 104, 113	F, W
MAE	101B	Advanced Fluid Mechanics	MAE 11 (or 110A), MAE 101A	101C, 104, 113	W, S
MAE	101C	Heat Transfer	MAE 101A, MAE 101B, MAE 105	175A	F
MAE	104	Aerodynamics	MAE 101A, MAE 101B	142, 155A	F
MAE	105	Intro to Mathematical Physics	Phys 2A, Phys 2B, Math 20D	101C	F, S
MAE	107	Computational Methods in Engineering	MAE 8, Math 18 (or 20F)		F, S
MAE	113	Fundamentals of Propulsion	MAE 11 (or 110A), MAE 101A, MAE 101B	155B	W
MAE	131A	Solid Mechanics I	Math 20D, MAE 30A (130A)	SE 160A	F, S
MAE	142	Dynamics and Control of Aerospace Vehicles	MAE 104, MAE 143B	155B	W
MAE	143A	Signals and Systems	Math 20D, Math 20E, Math 18 (or 20F)	143B	W
MAE	143B	Linear Control	MAE 143A	142, 175A	S
MAE	155A	Aerospace Eng. Design I	MAE 2, MAE 21 (or SE 2 or SE 104), MAE 104, MAE 30B (or 130C), SE 160A	155B	W
MAE	155B	Aerospace Eng. Design II	MAE 113, MAE 142, MAE 155A, MAE 170		S
MAE	170	Experimental Techniques	PHYS 2C & PHYS 2CL (or MAE 40/140)	155B, 175A	F, S
MAE	175A	Aerospace Eng. Lab I	MAE 101C, MAE 143B, MAE 170		W
MAE	180	Orbital Mechanics			F
SE	160A	Aerospace Structural Mechanics I	MAE 21 (or SE 2/L), MAE 30B (130B), MAE 131A	155A, SE 160B	W
SE	160B	Aerospace Structural Mechanics II	SE 160A		S

All courses must be taken for a letter grade (no P/NP) For more information, please contact an MAE undergraduate advisor: [mae-ugradadm@eng.ucsd.edu](mailto:mae-ugradadm@eng.ucsd.edu)