

| Subject | Course # | 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 | 11 (prev. 110A) | Thermodynamics | Phys 2C, CHEM 6A | 101B, 113 | F, W |
| 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 11 (or 110A), MAE 101A | 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 18 (or 20F) | 150 (unless SE 121 is taken) | F, S |
| MAE | 108 | Probability and Statistical Methods for Mech. & Env. Engr. | Math 20C, Math 18 (or 20F) | | S |
| MAE | 130A | Mechanics I: Statics | Math 20C, Phys 2A | 130B, 131A, 150, 160 | F, W |
| MAE | 130B | Mechanics II: Dynamics | MAE 130A | 130C, 156A | W, S |
| MAE | 130C | Mechanics III: Vibrations | 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) | 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, MAE 101C, MAE 131B or 160, MAE 130C | | W, S |
| MAE | 160 | Mechanical Behavior of Materials | MAE 20, MAE 130A, MAE 131A | 156B (unless 131B is taken), 171A (unless 131B is taken) | W |
| MAE | 170 | Experimental Techniques | Phys 2C | 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 |