

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**LIST OF PRE-REQUISITES AND CO-REQUISITES**  
 (NOTE: Co-requisites are denoted as “pre-requisites with concurrency” in Banner/Tiger-i)

**REQUIRED COURSES (4000 and 5000 level electives listed on back)**

Number	Title	Credit	Prerequisites/Corequisites
MECH2AA0	Mechanical Engineering Progress Assessment I	0	None
MECH2110	Statics and Dynamics	4	Pr: MATH1620, PHYS1600
MECH2120	Kinematics and Dynamics of Machines	4	Pr: MECH2110 (grade of C or Better) , MATH2630
MECH2220	Computer Aided Engineering	3	Pr: COMP1200, ENGR1110 Coreq: MATH2650
MECH3AA0	Mechanical Engineering Progress Assessment II		Pr: MECH2AA0
MECH3020	Thermodynamics II	3	Pr: ENGR2010 (grade of C or better)
MECH3030	Fluid Mechanics	3	Pr: ENGR2010 (C or better), MECH2110 (C or better), MATH2650 Coreq: MECH3130
MECH3040	Heat Transfer	3	Pr: MECH3020, MECH3030
MECH3050	Measurements and Instrumentation	3	Pr: MECH3030 Coreq: MECH3040, ELEC3810
MECH3130	Mechanics of Materials	4	Pr: MECH2110 (C or better), MATL2100, MATH2650, MATH2660, and either MECH2220 or MECH3220
MECH3140	System Dynamics and Controls	3	Pr: MECH2120, MATH2650
MECH3200	Concepts in Design and Manufacturing	2	Pr: MECH2110 (grade of C or better) Co-req: either MECH2220 or MECH3220
MECH3210	Design and Manufacturing Lab	1	Pr: MATL2100
MECH3230	Machine Design	3	Pr: MECH3130, and either MECH2220 or MECH3220, and either MECH2110 or both MECH3200 / 3210
MECH4240	Comprehensive Design I	2	Pr: MECH3AA0, MECH3230, and 1 of the following 3: MECH3040, MECH3050, MECH3140. Remaining 2 courses will be co-requisites.
MECH4250	Comprehensive Design II	2	Pr: MECH4240, and 2 of the following 3: MECH3040, MECH3050, MECH3140. Remaining course will be a co-requisite. Coreq: INSY3600

