

**OPTIONS FOR MECHANICAL ENGINEERING MAJOR PRESCRIBED ELECTIVES
(2022-2023)**

Students pursuing the general program take 12 semester credit hours from the list below:

COURSE	PRE-REQUISITE(S)
ENTP 3301 Innovation and Entrepreneurship	None
MECH 2340 Circuits and Applied Electronics	MATH 2420, PHYS 2326, MECH 1208
MECH 3360 Introduction to Materials Science	CHEM 1311, MATH 2415 or 2419, and PHYS 2326
MECH 3370 Applied Thermodynamics	MECH 3310 and MECH 3315
MECH 3380 Introduction to Computational Design & Analysis	CS 1325, MATH 2420, MECH 2320, and MECH 3305
MECH 3381 Introduction to Manufacturing Processes	MECH 1208 Pre/Co-requisite: MECH 3305
MECH 3V95 Topics in Mechanical Engineering	Varies at Topics Change
MECH 4301 Intermediate Mechanics of Materials	MECH 2320 and ENGR 3300
MECH 4320 Applications of Computational Tools in Thermal Fluid Science	MECH 3320
MECH 4330 Intermediate Fluid Mechanics	MECH 3315
MECH 4340 Mechanical Vibrations	ENGR 2300, MATH 2420, ENGR 3341, and MECH 2330
MECH 4342 Introduction to Robotics	Pre/Co-requisite: MECH 4310
MECH 4360 Introduction to Nanostructured Materials	MECH 2320 and MECH 3310
MECH 4365 Energy Analytics	Prerequisites: ENGR 2300, ENGR 3300, ENGR 3341
MECH 4370 Introduction to MEMS	MECH 3310, MECH 3350, PHYS 2326/2126, and CHEM 1311
MECH 4380 HVAC Systems	MECH 3320
MECH 4V95 Topics in Mechanical Engineering	Varies as Topics Change