

Department of Industrial & Systems Engineering
ENGR, INSY, and TECH Electives
Revised 3-4-2011

ENGR List of Approved Electives effective Spring term, 2011 (Pre-reqs in parentheses after course name)

ENGR 2050 Statics (PHYS 1600/1607 and MATH 2630)
ENGR 2200 Thermo, Fluids, Heat Transfer (CHEM 1030 and PHYS 1610 and MATH 2650)
ENGR 2100 Mechanics (PHYS 1600/1607) Students pursuing an Automotive Engineering and Manufacturing
Minor should select this class as their ENGR elective.
MECH 2110 Statics and Dynamics (MATH 1620/1627 and PHYS 1600/1607)
MATL 2100 Intro to Materials Science (None)

INSY Electives

Any three semester hour INSY course not required for major

TECH List of Approved Electives effective Spring term, 2011 (Pre-reqs in parentheses after course name)

Any three semester hour INSY course not required for major
COMP 5000 Web Application Development (Senior Standing)
ELEC 3820 Industrial Instrumentation (ELEC 3810)
ELEC 5150 Information Security (Senior Standing)
MATL 3100 Eng. Material-Metals (MATL 2100)
MECH 2220 Computer Aided Engineering (ENGR 1110, COMP 1200, co-req MATH 2650)
MECH 5510 Acoustics (MATH 2650)
STAT 4610 Applied Regression Analysis (STAT 3610 or STAT 3010)
STAT 4620 Applied Nonparametric Statistics (STAT 3610 or STAT 3010)
STAT 4630 Applied Time-Series Analysis (STAT 3610 or STAT 3010)
STAT 5630 Sample Survey, Design and Analysis (STAT 3600)
STAT 5670 Probability and Stochastic Processes (MATH 2630)
STAT 5690 Chaotic and Random Phenomena (MATH 1620)

NOTE: Six (6) hours of ROTC required courses count as the ENGR elective and one of the TECH electives. Three (3) hours of BET required courses count as a TECH elective.

PREVIOUS APPROVED ELECTIVES (PRIOR to SPRING 2011)

ENGR (pre Spring 2004) List of Approved Electives

ENGR 2010 Thermo, ENGR 2050 Statics, ENGR 2070 Mech of Matl, ENGR 2200 Thermo, Fluids, Heat Transfer, ENGR 2350 Dynamics, ELEC 3820 Industrial Instrumentation, MATL 2100 Intro to Matl, MECH 2110 Statics and Dynamics

ENGR List of Approved Electives effective Spring term, 2004

ENGR 2050 Statics, ENGR 2200 Thermo, Fluids, Heat Transfer, MATL 2100 Intro to Materials Science, MECH 2110 Statics and Dynamics

ENGR List of Approved Electives effective Spring term, 2006

ENGR 2050 Statics
ENGR 2200 Thermo, Fluids, Heat Transfer
ENGR 2100 Mechanics
MECH 2110 Statics and Dynamics

TECH (pre Spring 2004) List of Approved Electives

All 3000 and above courses in the College of Engineering

TECH List of Approved Electives effective Spring term, 2004

Any ISE course not required for the major, COMP 6000 Web Application Development, ELEC 3820 Industrial Instrumentation, ELEC 6150 Information Security, MATL 3100 Eng. Material-Metals, MECH 3220 Computer Aided Engineering, MECH 6510 Acoustics, STAT 6620 Non Parametric Statistics, STAT 6630 Sample Survey Design and Analysis