As at May 29, 2012

MECHANICAL ENGINEERING
Integrated Manufacturing

FALL WINTER FALL WINTER FALL WINTER FALL WINTER

FIRST YEAR

MATH 1004 Calculus for Engineering Students
MATH 1104 Linear Algebra for Eng. Students
ECOR 1010 Introduction to Engineering
CHEM 1101 Chemistry for Engineering Students

SECOND YEAR

MATH 2004 Multivariable Calculus for Eng. Students
MATH 2505 Differential Equations and Infinite Series for Eng. Students
PHYS 1004 Introductory Electromagnetism & Waves/Photonics
MAAE 2101 Engineering Dynamics
MAAE 2202 Mechanics of Solids I
MAAE 2400 Thermodynamics and Heat Transfer
MAAE 2700 Engineering Materials
MAAE 2900 Basic Science Elective (note a)

THIRD YEAR

MATH 3705 Mathematical Methods I
MAAE 3004 Dynamics of Machinery
MAAE 3022 Fluid Mechanics I
MECH 3002 Machine Design and Practice
MECH 3202 Fluid Mechanics II
MECH 3300 Heat Transfer
MECH 3700 FluidMechanics

FOURTH YEAR

MAAE 3800 Engineering Economics
MAAE 3901 Mech & Aero Engineering Lab
MAAE 4102 Materials Strength and Fracture
MAAE 4104 Feedback Control Systems
MECH 4907 Engineering Project

Electives
Electives
Electives
Electives

*Note:
(a) 0.5 credit of Basic Science Electives; taken in fall or winter term.
(b) 0.5 credit in Mechanical and Aerospace (AERO, MECH, MAAE) at the 4000-level or ELEC 4504.
(c) 1.5 credits from: MECH 4501, MECH 4503, MECH 4604, MECH 4704, MECH 4705, MECH 4905.

Expanded flow includes coursework requirements
*1st, 2nd, 3rd, 4th year annual and 2 credits per quarter to meet graduation requirements.
*Engineering Common Core
Mech. & Aerospace Engineering
Electronics
Mathematics and Statistics
Electives

Arts and Social Sciences
Civil and Environmental Engineering
Science (Physics, Chemistry, etc)
Systems & Computer Engineering

Note:
(c) 1.5 credits from: MECH 4501, MECH 4503, MECH 4604, MECH 4704, MECH 4705, MECH 4905.