MXET - MULTIDISCIPL ING TECH (MXET)

MXET 300 Mechatronics I – Mobile Robotic Systems
 Credits 3. 2 Lecture Hours. 3 Lab Hours.
Mechanical, electronic, software, control and communications aspects of
embedded intelligence-based electromechanical systems with a focus on
mobile robotic platforms.
Prerequisites: Grade of C or better in MXET 375, PHYS 207, and
ENGR 217/PHYS 217 or PHYS 217/ENGR 217; grade of C or better in
ESET 359 and ESET 369 or concurrent enrollment.

MXET 375 Applied Dynamic Systems
 Credits 3. 2 Lecture Hours. 3 Lab Hours.
Study of translational mechanical system dynamics, rotational
mechanical system dynamics, electrical system dynamics modeling,
electro-mechanical/mechatronics system dynamics, fluid power
dynamics and 2 dimensional rigid body dynamics.
Prerequisites: Grade of C or better in MMET 275; junior or senior
classification in an engineering technology major.

MXET 400 Mechatronics II – Industrial Robotic Systems
 Credits 3. 2 Lecture Hours. 3 Lab Hours.
Study and analysis of industrial robotics and automation processes
necessary for robot-centric work cell design and operation.
Prerequisites: Grade of C or better in MXET 300; grade of C or better
in ESET 462 or concurrent enrollment, junior or senior classification in
multidisciplinary engineering technology.