Electromechanical Systems Engineering Technology Required & Elective Core Course Flow Chart

ETT 210 3
Statics
PHY 121   MAT 105
Fall-Winter-Spring

ETT 234/L 1/1
Materials Joining
Fall-Spring

MFE 126/L 2/1
Engineer Graph I

ETT 201/L 3/1
Electrical Tech
PHY 123
Fall

EGR 100/L 3/1
Engineering,
Society and you

Additional Prerequisites
PHY - Physics
CHM – Chemistry
MAT – Math
* - Indicates another prerequisite
    higher in the chain

ETT 310/L 3/1
Fluid Mechanics I
MAT 131
Fall-Winter

ETT 220/L 3/1
Strengths Materials
MAT 130
Fall-Spring

MFE 226/L 2/1
Engineer Graph II
Fall-Winter-Spring

ETT 215/L 3/1
C Programming
MAT 105
Fall

→ Core Class Path

┈┈► Elective Class Path

ETT 460 2
Senior Project
*Senior Standing

ETM 315/L 3/1
Machine Element
PHY 121
Winter

ETT 321/L 3/1
Elec Dev & Sys
Winter

ETT 217 3
Materials Science
CHM 121   PHY 121
Fall-Winter

ETM 306 4
Thermodynamics
MAT 131
Fall

ETT 211 3
Dynamics
MAT 131
Winter-Spring

ETT 305 4
Engineering Econ
Fall-Winter

ETM 330/L 3/1
Instrument. Appl.
MAT 132   *
Spring

MFE 230/L 2/1
Material Forming
Winter-Spring

MFE 221/L 2/1
Material Removal
Fall-Winter-Spring

ETM 312 4
Fluid Mechanics II
*
Winter

ETM 334 4
Applied Heat & A/C
*
Fall

ETM 308 4
Heat Transfer
MAT 132   *

ETM 410/L 3/1
Internal Comb Eng
*
Spring

ETM 335/L 3/1
Heat & A/C
Winter

MFE 334/L 2/1
Foundry Process

MFE 465 3
Metal working
theory

ETE 344/L 3/1
Microcontr System
and Application

ETE 475/L 3/1
Intro. Robotics
Contr & Applications

ETM 499 4
Alternative Energy

ETM 499 3
Building Systems

ETP 499 3
Human Factors

ETE 480/L 3/1
Intro Motion Control

ETE 350/L 3/1
Feedback Cont.Sys.
MAT 132

ETT 499 3
Turbomachinery

MFE 406 3
Safety Engineering

ETP 302 3
Industrial Safety

ETT 499 3
Hydraulics

IE 392 3
Principles of Lean

MFE 380/L 1/1
Manufacturing
Metrology

Group A
Up to 10 Units

Group B
Up to 3 Units

Group C
Up to 8 Units

Group D
Up to 8 Units

Junior Standing

Senior Standing – Check with department

Electives – 23 Total Units