Department of Mechanical Engineering – Freshmen (who started before Fall 2012) and Sophomores who have **NOT** taken MATH241 by Fall 2012. **Course Map**

**CHEM 135**  
General Chemistry

**MATH140**  
Calculus I

**PHYS 161**  
Mechanics II

**ENES 102**  
Mechanics I

**ENES 100**  
Introduction to Engineering Design

**MATH 141**  
Calculus II

**ENES220**  
Dynamics

**MATH 246**  
Differential Equations

**PHYS 260/261**  
General Physics: Vibration, Waves, Heat, E&M

**ENES 232**  
Thermodynamics

**MATH 241**  
Calculus III

**ENES 221**  
Introduction to CAD

**MATH 206**  
Introduction to Matlab

**PHYS 270/271**  
General Physics: Electrodynamics, Light, Relativity & Modern Physics

**ENME 350**  
Electronics & Instrumentation I

**ENME 272**  
Introduction to Engineering Materials

**ENME 220**  
Careers in Mechanical Engineering

**ENGL 393**  
Technical Writing

**ENME 351**  
Electronics & Instrumentation II

**ENME 382**  
Vibrations, Controls and Optimization I

**ENME 331**  
Fluid Mechanics

**ENME 392**  
Statistical Methods for Product and Processes Development

**ENME 390**  
Product Engineering and Manufacturing

**ENME 371**  
Integrated Product and Process Development

**ENME 462**  
Vibrations, Controls and Optimization II

**ENME 4XX**  
ENME 4XX

**ENME 4XX**  
ENME 4XX

**ENME 4XX**  
ENME 4XX

(Note: You are allowed, if you wish, to take up to two electives outside of your major. These may be any 300 or 400 level courses in MATH, PHYS, COMP-SCIENCE, CHEM, BMGT or ENGINEERING. If you take an elective outside of your major, it will also count as one of your advanced studies upper core.) Arrows indicate primary prerequisite path but for clarity, some are not shown.

**HL**  **HA**  **HL/HA/HO/IE**  **SH**  **SB**  **SB/IE**  **D**  
(*only one IE course allowed*)

Fall 2013 Version - Yellow