# Department of Mechanical Engineering – Course Map

**Revised Fall 2015 Version**

**FS: ENGL 101, OC**

**DS: HS, HS, HU, HU, SP**

**IS*, IS* **

**UP*, UP*/CC* ** (*Some classes can fulfill multiple requirements*)

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**NOTE:** Interests in Thermo/Fluids careers, take ENME 332 Junior year, ENME 400 Senior year. Interests in Mechanics & Materials careers, take ENME 400 Junior year, ENME 332 Senior year.

Arrows indicate primary prerequisite path but for clarity, some are not shown.

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**CHEM 135**

**OR**

**CHEM 134**

**General Chemistry**

**MATH 140**

**Calculus I**

**ENES 100**

**Introduction to Engineering Design**

**PHYS 161**

**Mechanics II**

**MATH 141**

**Calculus II**

**ENES 220**

**Introduction to Engineering Materials**

**MATH 206**

**Introduction to Matlab**

**MATH 241**

**Calculus III**

**PHYS 260/261**

**General Physics: Mechanics and Particle Dynamics**

**ENES 221**

**Dynamics**

**ENME 272**

**Introduction to Engineering Materials**

**MATH 246**

**Differential Equations**

**ENME 270/271**

**General Physics: Electrodynamics, Light, Relativity & Modern Physics**

**ENME 201**

**Careers in Mechanical Engineering**

**ENME 350**

**Electronics & Instrumentation I**

**ENME 232**

**Thermodynamics**

**ENME 351**

**Electronics & Instrumentation II**

**PHYS 160/161**

**General Physics: Mechanics and Particle Dynamics**

**ENME 382**

**Introduction to Engineering Materials**

**ENME 400**

**Machine Design**

(Take ENME 400 or ENME 332 this term)

**MATH 241**

**Calculus III**

**ENME 361**

**Vibrations, Controls and Optimization I**

**ENME 392**

**Statistical Methods for Product and Processes Development**

**ENME 371**

**Product Engineering and Manufacturing**

**#ENME 332**

**Transfer Processes**

(Take ENME 400 or ENME 332 this term)

**ENME 472**

**Integrated Product and Process Development**

**Chemistry Requirement**

**CHEM 135** OR **CHEM 134**

**Must have credit for CHEM 131 to take CHEM 134**

**E&M**

**Heat, E&M**

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(Note: You are allowed, if you wish, to take up to two electives outside of your major. These may be 300 or 400 level courses in MATH, PHYS, COMP-SCIENCE, CHEM, BMGT or ENGINEERING.)