**COMMON CORE:**
- **15 Credits**
  - Analytical Reading/Writing: WRT102 ___
  - Academic Writing: WRT202 ___
  - Human Communication: CM104 ___
  - Calculus I: MAT171 ___
  - Physical Education (2 crs.): ____________

**AREA DISTR. REQUIREMENTS:**
- **6 Credits**
  - **I. Fine Arts & Humanities**
  - **6 Credits**
  - **II. Social & Behav. Sciences**
  - **6 Credits**
  - **III. Laboratory Sciences**
  - **SATISFIED BY MAJOR REQUIREMENTS**
  - **IV. Amer./West. Civ., Amer. Govt.**
  - **6 Credits**
  - **V. Int'l. Studies/Foreign Lang.**
  - **6 Credits**

**REQUIRED ELECTIVES:**
- **12 Credits**
  - General Chemistry I: CHM134 ___
  - Calculus II: MAT172 ___
  - Differential Equations: MAT272 ___

**REQUIRED MAJOR COURSES:**
- **88 Credits**
  - Fund. of Computer Science I: CS101 ___
  - Fund. of Electrical Engineering: ECE280 ___
  - EPADS I: EGR100 ___
  - EPADS II: EGR102 ___
  - Mathematical Methods: EGR240 ___
  - Career Training Prep.: EGR290 ___
  - Stat. Design/Process Con.: EGR305 ___
  - System Modeling and Analysis: EGR342 ___
  - Automatic Control: EGR392 ___
  - Statics: ME250 ___
  - Dynamics/Vibration: ME252 ___
  - Materials Science: ME260 ___
  - Materials Science Lab: ME261 ___
  - Strength of Materials: ME264 ___
  - Materials/Solids Lab: ME265 ___
  - Thermodynamics: ME320 ___
  - Instrum./Microprocessor Lab: ME351 ___
  - Fluid Mechanics: ME360 ___
  - Thermo/Fluids Lab: ME361 ___
  - Machine Design: ME380 ___
  - Capstone Design I: ME400 ___
  - Capstone Design II: ME402 ___
  - Heat Transfer: ME410 ___
  - Thermal System Design: ME411 ___
  - Finite Element Analysis: ME450 ___
  - Engineering Physics/Mech: PHY160 ___
  - Engineering Physics/E&M: PHY260 ___

**Plus ONE of the following:**
- Applied Controls: EGR442 ___
- Applied Energy Systems: ME430 ___
- Applied Kinematics & Dynamics: ME460 ___
- Special Topics in Engineering: ME470 ___
- Special Topics in Engineering: ME474 ___
- Independent Study: ME480 ___
- Independent Study: ME482 ___

**Plus ONE of the following:**
- Applied Thermal Sciences: ME432 ___
- Applied Mechanics & Materials: ME462 ___
- Special Topics in Engineering: ME472 ___
- Special Topics in Engineering: ME476 ___
- Independent Study: ME480 ___
- Independent Study: ME482 ___

**REQ. ENGINEERING CO-OP**
- (6 Credits)
  - Co-op I: EGR491 ___
  - Co-op II: EGR492 ___
  - Co-op III: EGR493 ___

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* A grade of “2.0” or better is required.

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1. All courses must be completed with a minimum “2.0” grade. Courses may not be taken on a pass/fail basis.
2. A minimum of 12 credits of the Area Distribution Requirements must be at the 200-level or above. Courses may not be taken on a pass/fail basis. See Registrar’s Office for official list of courses.
3. Six credits are to be taken in one of these two areas; if foreign language is selected, six credits must be in one language.
4. Requirements listed apply to students who matriculate into or declare this major during the 2012-2013 academic year.

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(Signed) Faculty Advisor    Date
(Signed) Dept Chair            Date