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

### AREA DISTR. REQUIREMENTS: 

#### I. Fine Arts & Humanities 6 Credits
- Intro Mechanical Engineering ME100
- 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

#### II. Social & Behav. Sciences 6 Credits
- *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

#### III. Laboratory Sciences
- SATISFIED BY MAJOR REQUIREMENTS

#### IV. Amer./West. Civ., Amer. Govt. 6 Credits
- System Modeling and Analysis EGR342
- Automatic Control EGR392
- General Chemistry I CHM134
- Calculus II MAT172
- Differential Equations MAT272

#### V. Int'l. Studies/Foreign Lang. 6 Credits
- General Chemistry II CHM135
- Calculus III MAT272

### REQUIRED ELECTIVES: 12 Credits
- Fund. of Electrical Engineering ECE280
- EPADS I EGR100
- Comp. Methods/Engineering EGR150
- Mathematical Methods EGR240
- Career Training Prep. EGR290
- Stat. Design/Process Con. EGR305
- Finite Element Analysis ME450
- Engineering Physics/Mech PHY160
- Engineering Physics/E&M PHY260

### REQUIRED MAJOR COURSES: 88 Credits
- Intro Mechanical Engineering ME100
- 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

### 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 ME482

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

### All courses must be completed with a minimum “2.0” grade. Courses may not be taken on a pass/fail basis.

### 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.

### Six credits are to be taken in one of these two areas; if foreign language is selected, six credits must be in one language.

### Requirements listed apply to students who matriculate into or declare this major during the 2013-2014 academic year.

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