### General Studies
- **42 min.**

### Major courses
- **51**

### Additional Requirements
- **11**

### Concentration
- **24**

### Total to graduate (min. 40 hrs upper division)
- **128**

*This sheet applies to the 2013-2014 catalog only. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors must work with a faculty advisor on course selection and sequencing to ensure a timely graduation.*

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### Written Communication
- **ENG 1010 (3hrs)** Composing Arguments*
- **ENG 1008/1009 (6 hrs.)** Freshman Comp: The Essay Part I & II*
- **ENG 1020 (3hrs)** Freshman English: Rsrch, Anly, & Documt. (must be completed within 45-credit hours)

### Oral Communication*
- **SPE 1010 (3 hrs)** Public Speaking

### Quantitative Literacy*: students must earn a grade of "C" or higher
- **MTH 1410 (4 hrs)** Calculus I
- **MTH 1400 (4 hrs)** Pre-Calculus & MTH 1410 (4 hrs) Calculus I

*Note: MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400.

### Arts & Humanities
- **PHI 1030 (3 hrs)** Introduction to Ethics
- **(3 hrs)**

### Historical
- **(3 hrs)**

### Social & Behavioral Sciences I
- **ECO 2010 (3 hrs)** Principles of Economics: Macro

### Social & Behavioral Sciences II
- **(3 hrs)**

### Natural & Physical Sciences
- **CHE 1800 (4 hrs)** General Chemistry I
- **PHY 2311 (4 hrs)** General Physics I
- **PHY 2321 (1 hr)** General Physics I Lab
- **PHY 2331 (4 hrs)** General Physics II
- **PHY 2341 (1 hr)** General Physics II Lab

### Global Diversity
- May be satisfied within general studies
- **(3 hrs)**

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### MAJOR COURSES:
For every MET course, a minimum grade of “C” is required for all prerequisites before a student can progress.

- **MET 1000 (3 hrs)** Introduction to Mechanical Engineering Technology
- **MET 1010 (3 hrs)** Manufacturing Processes
- **MET 1200 (3 hrs)** Technical Drawing I
- **MET 1210 (3 hrs)** 3D Modeling
- **MET 1310 (3 hrs)** Principles of Quality Assurance
- **MET 2200 (3 hrs)** Materials of Engineering
- **MET 3110 (3 hrs)** Thermodynamics
- **MET 3150 (3 hrs)** Mechanics II-Dynamics
- **MET 3180 (3 hrs)** Fluid Mechanics I
- **MET 3210 (4 hrs)** Introduction to Computer Aided Engineering
- **MET 3410 (3 hrs)** Geometric Dimensioning and Tolerancing
- **MET 4300 (3 hrs)** Project Engineering
- **CET 2150 (3 hrs)** Mechanics I-Statics
- **CET 3135 (4 hrs)** Mechanics of Materials with Laboratory

### Additional Technical Requirements
- **EET 2000 (3 hrs)** Electric Circuits & Machines
- **EET 3010 (4 hrs)** Industrial Electronics

### Additional Requirements
- **COM 2610 (3 hrs)** Introduction to Technical Writing
- **MTH 1410 (4 hrs)** Calculus I
- **MTH 2410 (4 hrs)** Calculus II

### Mechanical Concentration
- **MET 3070 (3 hrs)** Machine Design
- **MET 3125 (3 hrs)** Heat Transfer with Laboratory
- **MET 3190 (3 hrs)** Fluid Mechanics II
- **MET 3320 (3 hrs)** Instrumentation Laboratory
- **MET 3xx (3 hrs)** Upper-division MET elective
- **MET 3xx (3 hrs)** Upper-division MET elective
- **MET 4070 (3 hrs)** Computer Aided Design (Senior Experience)
- **MET 4280 (3 hrs)** Advanced Energy Technology

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### Multicultural Requirement
(May be satisfied within General Studies)

### Electives