# Mechanical Engineering Technology, B.S., Manufacturing Concentration

This sheet applies to the 2012-2013 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.

### General Studies
- **42 min**
- **51 Major courses**
- **11 Additional requirements**
- **25 Concentration**
- **Total to graduate (min. 40 hrs upper division): 129 min**

*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU Denver*

**Written Communication**
- ENG 1010 (3hrs) Freshman Comp: the Essay*
- OR
- ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II*
- ENG 1020 (3hrs) Freshman Comp: Anal., Rsrch & Docum. (must be completed within 45-credit hours)

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

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

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

**Major Courses:**
- **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 3160 (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 4000 (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**

**Computer Aided Manufacturing Concentration**
- **MET 3000 (4 hrs) Manufacturing Analysis**
- **MET 3100 (3 hrs) N/C Computer Programming**
- **MET 3250 (3 hrs) Tool Design & Production Tooling**
- **MET 3300 (3 hrs) Statistical Process Control**
- **MET 3330 (3 hrs) Robotics for Manufacturing**
- **MET xxx (3 hrs) Upper-Division Elective**
- **MET 4010 (3 hrs) Advanced Manufacturing Technology (Sr. Experience)**
- **MET 4080 (3 hrs) Computer Aided Manufacturing**

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