Mechanical Engineering Technology, B.S., Manufacturing Concentration

303-556-2976 Plaza Building 262
College of Professional Studies

This sheet applies to the 2015-2016 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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General Studies: 38 min.
Major courses: 68
Concentration: 22
Total to graduate (min. 40 hrs upper division): 128

TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU DENVER

Written Communication
- **ENG 1010 (3 hrs) Composing Arguments**
- OR **ENG 1008/1009 (6 hrs) Intro to Composition I and II**
- **ENG 1020 (3 hrs) Freshman Comp: Anly, Rsrch, & 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 1400 (4 hrs) Pre-Calculus**
(Note: MTH 1110 (4 hrs) College Algebra and MTH 1120 (3 hrs) Trigonometry may substitute for MTH 1400)

Arts & Humanities
- **PHI 1030 (3 hrs) Introduction to Ethics**
- OR **PHI 3360 (3 hrs) Business Ethics**
- **(3 hrs)**

Historical
- **(3 hrs) recommended to select an approved multicultural course**

Social & Behavioral Sciences I
- **IND 2810 (3 hrs) Technology and Design: Global Perspectives (recommended)**

Social & Behavioral Sciences II
- **ECO 2020 (3 hrs) Principles of Microeconomics**

Natural & Physical Sciences
- **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
- **IND 2810 (3 hrs) Technology and Design: Global Perspectives (recommended)**

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**
- OR **MET 1040 (3 hrs) Introduction to Engineering**
- **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 3185 (3 hrs) Fluid Mechanics**
- **MET 3410 (3 hrs) Geometric Dimensioning and Tolerancing**
- **MET 4000 (3 hrs) Project Engineering**
- **MET 4100 (1 hr) Senior I (Sr. Exp.)**
- **MET 4110 (2 hrs) Senior II (Sr. Exp.)**
- **CET 2150 (3 hrs) Mechanics I-Statics**
- **CET 3135 (4 hrs) Mechanics of Materials with Laboratory**
- **CHE 1800 (4 hrs) General Chemistry I**
- **COM 2610 (3 hrs) Introduction to Technical Writing**
- **EET 2000 (3 hrs) Electric Circuits and Machines**
- **EET 2350 (3 hrs) Advanced Technical Programming**
- **EET 3010 (4 hrs) Industrial Electronics**
- OR **EET 3730 (2 hrs) Process Control Systems**
AND **EET 3740 (2 hrs) Programmable Logic Controllers**
- **MTH 1410 (4 hrs) Calculus I**
- **MTH 2410 (4 hrs) Calculus II**

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 3xxx (3 hrs) Upper-Division Elective**
- **MET 4080 (3 hrs) Computer Aided Manufacturing**

**Multicultural Requirement may be satisfied within General Studies**