

Mechanical Engineering Technology, B.S., Mechanical Concentration

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

Catalog 15-16

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.

General Studies	38 min.
Major courses	68
Concentration	21
Total to graduate (min. 40 hrs upper division)	127

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

*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, and 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

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

MECHANICAL CONCENTRATION

MET 3070 (3 hrs) Machine Design

MET 3125 (3 hrs) Heat Transfer with Laboratory

MET 3320 (3 hrs) Instrumentation Laboratory

MET 3xxx (3 hrs) Upper-division MET elective

MET 3xxx (3 hrs) Upper-division MET elective

MET 4070 (3 hrs) Computer Aided Design (Sr. Exp.)

MET 4280 (3 hrs) Advanced Energy Technology

Multicultural Requirement may be satisfied within General Studies