Mechanical Engineering Technology, B.S., Manufacturing Concentration

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

Catalog 13-14

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.

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

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 COLLEGE-LEVEL CREDIT HOURS**

Written Communication

___ ENG 1010 (3hrs) Composing Arguments*

OR 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

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).

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)

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 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 xxxx (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)

Electives