

Mechanical Engineering Technology, B.S., Mechanical 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	24
Total to graduate (min. 40 hrs upper division)	128

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

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 3xxx (3 hrs) Upper-division MET elective

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

___ MET 4070 (3 hrs) Computer Aided Design (Senior Experience)

___ MET 4280 (3 hrs) Advanced Energy Technology

Multicultural Requirement

(May be satisfied within General Studies)

Electives