Electrical Engineering Technology, B.S., Power and Control Systems Concentration

303-556-2503 Plaza Building 262

General Studies
Major courses
Concentration
Additional requirements
Total to graduate (min. 40 upper division hours)

43-51 60 15 11 128-136

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.

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
____ (3 hrs)
  PHI 1030 (3 hrs) Introduction to Ethics
OR PHI 3360 (3 hrs) Business Ethics

Historical
____ (3 hrs)

Natural & Physical Sciences: Students must earn a grade of “C” or higher
____ CHE 1100 (4 hrs) Principles of Chemistry & CHE 1150 (1 hr) Lab
or  CHE 1800-4 & CHE 1810-4 & CHE 1850-2 Lab (may be substituted)
____ PHY 2311 (4 hrs) General Physics I & PHY 2321 (1 hr) Lab

Social & Behavioral Science I
____ IND 2810 (3 hrs) Technology & Design: Global Perspectives (recommended)

Social & Behavioral Science II
____ (3 hrs)

Global Diversity
____ IND 2810 Technology & Design: Global Perspectives (recommended)

REQUIRED TECHNICAL COURSES (CORE): any course used to satisfy a prerequisite for an EET course must be passed with a grade of “C” or better.

EET 1001 (3 hrs) Electronics: An Introduction
EET 1140 (3 hrs) Circuits I
EET 1150 (3 hrs) Circuits II
EET 2145 (4 hrs) Electronics
EET 2310 (3 hrs) Digital Circuits I
EET 2340 (3 hrs) Technical Programming Applications
EET 2350 (3 hrs) Advanced Technical Programming
EET 3110 (4 hrs) Circuit Analysis with Laplace
EET 3120 (4 hrs) Advanced Analog Electronics
EET 3330 (3 hrs) Digital Circuits II
EET 3410 (3 hrs) Electric Machines
EET 3620 (3 hrs) Analog & Digital Communications
EET 3630 (3 hrs) Electromagnetic Fields
EET 3715 (3 hrs) Control Systems Analysis
EET 3730 (2 hrs) Process Control Systems
EET 3740 (2 hrs) Programmable Logic Controllers
EET 4100 (1 hr) Senior Project I (Senior Experience)
EET 4110 (2 hrs) Senior Project II (Senior Experience)
EET 4340 (3 hrs) Interface Techniques
EET 4370 (3 hrs) Microcontrollers

POWER AND CONTROL SYSTEMS CONCENTRATION
EET 3420 (3 hrs) Electric Power Distribution
EET 3430 (3 hrs) Power Generation Using Renewable Energies
EET 4710 (4 hrs) Digital Control Systems Design

8 additional credit hours chosen CET 2150, CET 3120, EET 3800, EET 4320, EET 4630, or EET 4730.

Additional Requirements: 13-credit hours
COM 2610 (3 hrs) Introduction to Technical Writing
MTH 1410 (4 hrs) Calculus I* (can be satisfied in general studies)
MTH 2410 (4 hrs) Calculus II

Multicultural Requirement
(may be satisfied within General Studies)