

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

303-556-2503 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	43-51
Major courses	60
Concentration	15
Additional requirements	11
Total to graduate (min. 40 upper division hours)	128-136

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 (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

- ___ (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)