

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

303-556-2503

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

Major courses

Concentration

**Total to graduate (min. 40 upper division hours)**

38 min.

72

18

**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 (3 hrs) Composing Arguments\*

**OR** ENG 1008/1009 (6 hrs) Intro to Composition I and II\*

\_\_\_ ENG 1020 (3 hrs) Freshman Comp: Anly, Rsrch, & 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

\_\_\_ (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 and CHE 1150 (1 hr) Lab

\_\_\_ PHY 2311 (4 hrs) General Physics I and PHY 2321 (1 hr) Lab

### Social & Behavioral Science I

\_\_\_ (3 hrs)

### Social & Behavioral Science II

\_\_\_ (3 hrs)

### Global Diversity

\_\_\_ (3 hrs) may be satisfied within General Studies

**MAJOR COURSES:** 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**

**OR EET 1040 (3 hrs) Introduction to Engineering**

\_\_\_ EET 1140 (4 hrs) Circuits I

\_\_\_ EET 1150 (4 hrs) Circuits II

\_\_\_ EET 2145 (3 hrs) Electronics

\_\_\_ EET 2165 (1 hr) Electronics Laboratory

\_\_\_ 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) Transform Methods in Circuit Analysis

\_\_\_ 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 and Digital Communications

\_\_\_ EET 3630 (3 hrs) Electromagnetic Fields

\_\_\_ EET 3715 (4 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 (Sr. Exp.)

\_\_\_ EET 4110 (2 hrs) Senior Project II (Sr. Exp.)

\_\_\_ EET 4340 (3 hrs) Interface Techniques

\_\_\_ EET 4370 (3 hrs) Microcontrollers

\_\_\_ 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

### **POWER AND CONTROL SYSTEMS CONCENTRATION:**

\_\_\_ EET 3420 (3 hrs) \_\_\_ EET 3430 (3 hrs) \_\_\_ EET 4710 (4 hrs)

8 additional credit hours chosen CET 2150, CET 3120, EET 4320, EET 4330, or EET 4730, MET 3110, or MET 3125.

\_\_\_ **Multicultural Requirement** may be satisfied within General Studies