

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

303-556-2503 Plaza Building 262

Catalog 14-15

## College of Professional Studies

This sheet applies to the 2014-2015 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	38
Major courses	78
Concentration	18
<b>Total to graduate (min. 40 upper division hours)</b>	<b>128-136</b>

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.) Intro to Composition I & II\*  
\_\_\_ ENG 1020 (3hrs) 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 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  
\_\_\_ PHY 2311 (4 hrs) General Physics I & 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

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**

#### **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 & 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 (Senior Experience)  
\_\_\_ EET 4110 (2 hrs) Senior Project II (Senior Experience)  
\_\_\_ 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) 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 4320, EET 4330, or EET 4730, MET 3110, or MET 3125.

#### \_\_\_ **Multicultural Requirement**

(may be satisfied within General Studies)