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

#### General Studies

<table>
<thead>
<tr>
<th></th>
<th>43-51</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major courses</td>
<td>60</td>
</tr>
<tr>
<td>Concentration or minor courses</td>
<td>18</td>
</tr>
<tr>
<td>Additional requirements</td>
<td>11</td>
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<tr>
<td><strong>Total to graduate (min. 40 upper-division hours)</strong></td>
<td>128-140</td>
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</tbody>
</table>

This sheet applies to the 2011-2012 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 Level I

**Composition**
- ENG 1010-3 Freshman Comp: the Essay
- ENG 1020-3 Freshman Comp: Anal., Rsrch & Docum.

**Mathematics**
- MTH 1410-4 Calculus I
- MTH 1400-4 Pre-Calculus & MTH 1410-4 Calculus I

*(Note: MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400)*

**Communications**
- SPE 1010-3 Public Speaking

#### General Studies Level II

**Historical**
- -3

**Arts & Letters**
- PHI 1030-3 Introduction to Ethics
- PHI 3360-3 Business Ethics (preferred)
- PHI 3370-3 Computer, Ethics & Society

**Social Sciences**
- -3
- -3

**Natural Sciences**
- CHE 1100-4 Principles of Chemistry & CHE 1150-1
- CHE 1800-4 & CHE 1810-4 & CHE 1850-2 Lab (may be substituted)
- PHY 2311-4 General Physics I
- PHY 2321-1 General Physics I Lab

**ADDITIONAL GRADUATION REQUIREMENT**

**Multicultural Requirement (may be satisfied within General Studies)**
- -3

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

**POWER AND CONTROL SYSTEMS CONCENTRATION**

- EET 3420-3 Electric Power Distribution
- EET 3430-3 Power Generation Using Renewable Energies
- EET 4710-4 Digital Control Systems Design

*Courses in bold are recommended for students to complete within their freshman year at Metro State.*
Notes:
CR – Only exceptionally good students should take more than 16 hours. It is recommended that courses be taken in a ninth semester, or some courses be taken during the summer semesters.
MC – At least one general studies course must be Multicultural.
MP – Students placing directly into MTH 1410 Calculus I in the first semester may replace these hours with MTH 2420 Calculus III in the third semester.
METROPOLITAN STATE COLLEGE of DENVER
Bachelors of Science in Electrical Engineering Technology

Fifth (Fall) Semester

A p1
- EET 3620 Analog and Digital Communications
- EET 3410 Electric Machines
- EET 3110 Circuit Analysis with Laplace

B p1
- EET 3330 Digital Circuits II
- G.S. Historical

C p1

D p1
- See note MCI
- See note CR - Take EET 3830 in the Eighth Semester and then the G.S. Social Science courses in any summer semester.

Sixth (Spring) Semester

- EET 3120 Adv. Analog Electronics
- EET 3630 Electromagnetic Fields
- EET 3730 Process Controls
- EET 3740 Programmable Logic Controllers

- G.S. Arts & Letters
  - PHI 3360 Business Ethics
  - PHI 3370 Computers, Ethics, and Society or PHI 1030 Ethics

- EET 3715 Control System Design and Lab
- EET 4100 Senior Project I

- EET 4340 Interface Techniques

- EET 4110 Senior Project II
- Course in Concentration or Minor

- Course in Concentration or Minor

Seventh (Fall) Semester

- G.S. Social Science
  - See note MCI

- EET 4100 Senior Project I

- EET 4340 Interface Techniques

- Course in Concentration or Minor

- Course in Concentration or Minor

- Course in Concentration or Minor

Eighth (Spring) Semester

- G.S. Social Science
  - See note MCI

- EET 4110 Senior Project II

- Course in Concentration or Minor

- Course in Concentration or Minor

- Course in Concentration or Minor

See note CR

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