Metropolitan State University of Denver
Electrical Engineering Technology Major, B.S.: Power & Control Systems Concentration
Minor (not required):
Fall 2013 Catalog

First Year	Suggested Course plan	Prerequisites	Alternative Course Plan
Fall: 16 credit hours	EET 1001 (3) Electronics: An Introduction (**F, S)**	High school algebra	
	MTH 1400 (4) Pre-Calculus **(F, S, Su)**	Appropriate placement test scores or prerequisite courses	
	ENG 1010 (3) Freshman Composition: The Essay **(F, S, Su)**	Appropriate placement test score	
	SPE 1010 (3) Public Speaking **(F, S, Su)**		
	Social & Behavioral Science I (3) IND 2810 recommended (global diversity) **(F, S, Su)**		
			TOTAL SEMESTER CREDIT HOURS:
Spring: 16 credit hours	EET 1140 (4) Circuits I **(F, S)**	Intermediate algebra course & one-half years of secondary school algebra or equivalent & appropriate math placement test scores or higher level math course with a grade of "C" or better	
	MTH 1410 (4) Calculus I **(F, S, Su)**	Appropriate placement test scores or prerequisite courses	
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation **(F, S, Su)**	ENG 1010	
	CHE 1100 (4) Principles of Chemistry AND CHE 1150 (1) Principles of Chemistry Laboratory **(F, S, Su)**	Minimum performance standard scores on placement tests	
			TOTAL SEMESTER CREDIT HOURS:

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Second Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	EET 1150 (4) Circuits II **(F, S)**	EET 1140 and MTH 1120 or MTH 1400 or higher level math course with grades C or better	
	EET 2340 (3) Technical Programming Applications **(F, S)**	MTH 1400 or MTH 1110 & MTH 1120 or higher level math course with a grade C or better	
	MTH 2410 (4) Calculus II **(F, S, Su)**	MTH 1410 with a grade of C or better or permission of instructor	
	PHY 2311 (4) General Physics I AND PHY 2321 (1) General Physics I Laboratory **(F, S, Su)**	MTH 1410, ENG 1010, Oral Communication	
			TOTAL SEMESTER CREDIT HOURS:
Spring: 16 credit hours	EET 2145 (4) Electronics **(F, S)**	EET 1150 or EET 2000 & either CHE 1100 or 1800 with grades C or better	
	EET 2310 (3) Digital Circuits I **(F, S)**	Intermediate algebra course & one-half years of secondary school algebra or equivalent & appropriate math placement test scores or higher level math course with a grade of “C” or better	
	EET 2350 (3) Advanced Technical Programming **(F, S)**	MTH 1400 or MTH 1110 & MTH 1120 or higher level math course with a grade C or better	
	COM 2610 (3) Introduction to Technical Writing **(F, S, Su)**	ENG 1010	
	Arts and Humanities (3) **(F, S, Su)**		
			TOTAL SEMESTER CREDIT HOURS:

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Third Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	EET 3620 (3) Analog and Digital Communications	MTH 2410 and either EET 2145 or EET 3010 with grades C or better	
	EET 3410 (3) Electric Machines	MTH 2410 and either EET 2145 or EET 3010 with grades C or better	
	EET 3110 (4) Circuit Analysis with Laplace	EET 1150 & MTH 2410 with grades C or better	
	EET 3330 (3) Digital Circuits II	EET 2310 with a grade C or better	
	Historical (3) HIS 1920, 3090, or 3590 are recommended (multicultural) **(F, S, Su)**		
			TOTAL SEMESTER CREDIT HOURS:
Spring: 17 credit hours	EET 3120 (4) Advanced Analog Electronics	EET 2145, 3110, and MTH 2410 with grades C or better	
	EET 3630 (3) Electromagnetic Fields	EET 3110, 3620 and MTH 2410 with grade C or better	
	EET 3730 (2) Process Control Systems	High school algebra or equivalent or appropriate math placement test scores	
	EET 3740 (2) Programmable Logic Controllers	High school algebra or equivalent	
	EET 4370 (3) Microcontrollers	EET 2350 and 3330 with grades C or better	
	EET 3420 (3) Electric Power Distribution	MTH 2410; and either EET 2145 or 3010 with grades C or better	
			TOTAL SEMESTER CREDIT HOURS:

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Fourth Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 18 credit hours	PHI 1030 (3) Introduction to Ethics **OR** PHI 3360 (3) Business Ethics **(F, S, Su)**	At least Junior standing	
	EET 3715 (4) Control Systems Analysis **(F)**	EET 3110, 3120, and MTH 2410 with grade C or better	
	EET 4100 (1) Senior Project I (**F, S)**	COM 2610, EET 3120 and 4370 with grades C or better; Completion of general studies with a cumulative GPA of 2.0; Senior Standing	
	EET 4340 (3) Interface Techniques **(F)**	EET 3330 and 4370 with grade C or better	
	EET 3430 (3) Power Generation Using Renewable Energies **(F)**	MTH 2410; and either EET 2145 or 3010 with grades C or better	
	EET 4710 (4) Digital Control Systems Design **(F)**	EET 3710 with grade C or better	
			TOTAL SEMESTER CREDIT HOURS:
Spring: 13 credit hours	EET 4110 (2) Senior Project II (**F, S)**	SPE 1010, EET 4100 and 4340 with grades C or better	
	CET, MET, or EET approved elective (4)	See catalog or department for approved list	
	CET, MET, or EET approved elective (4)	See catalog or department for approved list	
	Social & Behavioral Science II (3) **(F, S, Su)**		
			TOTAL SEMESTER CREDIT HOURS:

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	Suggested Course plan	Prerequisite	Alternative Course Plan
Semester:			
			TOTAL SEMESTER CREDIT HOURS:
Semester:			
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Semester:			
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