



METROPOLITAN STATE UNIVERSITYSM
OF DENVER

College of Professional Studies

Computer Engineering, B.S.

Minor (not required)

Fall 2020 Catalog Year

First Year		
Fall: 16 Credits	CPE 1040 (3) Introduction to Engineering	
	Arts & Humanities (3)	
	MTH 1410 (4) Calculus I	
	Oral Communication (3)	
	Written Communication (3)	
Spring: 16 Credits	CPE 1140 (4) DC Circuit Fundamentals	
	PHY 2311 General Physics I (4) AND	
	PHY 2321 General Physics I Laboratory (1)	
	CS 1050 (4) Computer Science I	
	Written Communication (3)	

Third Year		
Fall: 16 Credits	CPE 3330 (3) Digital Systems II	
	CPE 2350 (3) C Programming for Engineer	
	CS 1400 (4) Computer Organization I	
	Historical (3) MC or GD recommended	
	Social & Behavioral Sciences (3)	
Spring: 16 Credits	CS 2400 (4) Computer Organization II	
	CPE 4020 (3) Digital Systems III - Hardware Description Language	
	CPE 3500 (3) Semiconductor Device Fundamentals	
	CPE 4370 (3) Embedded System Design I	
	Social & Behavioral Sciences (3) MC or GD recommended	

Second Year		
Fall: 17 Credits	CPE 1150 (4) AC Circuit Fundamentals	
	CS 2050 (4) Computer Science II	
	MTH 2410 (4) Calculus II	
	CHEM 1100 (4) Principles of Chemistry AND	
	CHEM 1150 (1) Principles of Chemistry Laboratory	
Spring: 15 Credits	CPE 2145 (3) Solid State Electronics AND	
	CPE 2165 (1) Solid State Electronics Laboratory	
	CPE 2310 (3) Digital Systems I	
	Arts & Humanities (3)	
	PHY 2331 (4) General Physics II AND	
PHY 2341 (1) General Physics II Laboratory		

Fourth Year		
Fall: 17 Credits	CPE 4700 (1) Senior Design I	
	CPE 4390 (3) Embedded Systems Design II	
	CPE 4600 (3) VLSI Circuits and Systems	
	CPE 3400 (3) Signals & Systems	
	CPE 3620 (3) A&D Communications	
	MTH 3170 (4) Discrete Math for Computer Science	
Spring: 15 Credits	CPE 4800 (2) Senior Design II	
	CPE Upper Division Elective (3)	
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	MTH3130 (4) Advanced Matrix Methods for the Physical Sciences	
	CPE 4320 (3) Digital Filter Design	