



Computer Engineering, B.S.

Minor (not required)

Fall 2021 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) <b>AND</b>	
	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 <b>AND</b>	
	CHEM 1150 (1) Principles of Chemistry Laboratory	
Spring: 15 Credits	CPE 2145 (3) Solid State Electronics <b>AND</b>	
	CPE 2165 (1) Solid State Electronics Laboratory	
	CPE 2310 (3) Digital Systems I	
	Arts & Humanities (3)	
	PHY 2331 (4) General Physics II <b>AND</b>	
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	