



COLLEGE OF AEROSPACE, COMPUTING, ENGINEERING, AND DESIGN

Electrical Engineering, B.S. (130 Credits)

Minor (not required)

Fall 2025 Catalog Year

First Year		
Fall: 16 Credits	ELE 1001 (3) Introduction to Electrical Eng (F, S)	3
	MTH 1410 (4) Calculus I (F, S, Su)	4
	ENG 1010 (3) Composing Arguments (F, S, Su)	3
	CEE 2350 Programming for Engineers (F, S)	3
	COMM 1010 (3) Presentational Speaking (F, S, Su)	3
Total Credits		16
Spring: 18 Credits	CEE 1140 (4) DC Circuits Fundamental and CEE 1145 Lab (F, S)	4
	MTH 3130 (4) Applied Methods in Linear ALgebra (F, S, Su)	4
	MTH 2410 (4) Calculus II (F, S, Su)	5
	CHE 1100 (4) Principles of Chemistry AND	4
	CHE 1150 (1) Principles of Chemistry Laboratory (F, S, Su)	1
Total Credits		18

Second Year		
Fall: 17 Credits	CEE 1150 (4) Circuits II and CEE 1155 Lab (F, S)	4
	CEE 2310 (3) Digital Systems I (F, S)	3
	PHY 2200 & PHY 2341 (F, S)	4
	Arts and Humanities	3
	Social and Behavioral Science I	3
Total Credits		17
Spring: 17 Credits	CEE 2145 (3) Electronics and CEE2165 Lab (F, S)	4
	CEE 3330 (3) Digital Systems II (F, S)	3
	Arts and Humanities	3
	MTH 2420 Calc III (F, S, Su)	4
	ENG 1020 (3) Research & Argument Writing (F, S, Su)	3
Total Credits		17

Third Year		
Fall: 16 Credits	CPE 3400 (4) Signals and Systems (F, S)	4
	CEE 4370 (3) Embedded System Design I (F, S)	3
	ELE 3410 (3) Electric Machines (F, S)	3
	MTH 3420 Differential Equations (F, S)	4
	ELE 3740 (2) Programmable Logic Controllers (F)	2
Total Credits		16
Spring: 17 Credits	ELE 3120 (4) Advanced Analog Electronics (F, S)	4
	CEE 4390 (3) Embedded System Design II (F, S)	3
	MTH 3210 Probability and Statistics	4
	CEE 3620 (3) Analog/Digital Communication (F, S)	3
	Historical (3) GD recommended (F, S, Su)	3
Total Credits		17

Fourth Year		
Fall: 15 Credits	ELE 3630 (3) Electromagnetic Fields (F, S)	3
	CEE 4700 (1) Senior Design I (F, S) (Sr. Exp.)	1
	ELE 3730 (2) Process Control Systems (S)	2
	ELE approved elective (3)	3
	ELE approved elective (3)	3
	Social & Behavioral Science II (3) (F, S, Su)	3
Total Credits		15
Spring: 15 Credits	CEE 4800 (2) Senior Design II (F, S) (Sr. Exp.)	2
	ELE3715 (4) Control Systems Analysis (F, S)	4
	ELE approved elective (3)	3
	ELE approved elective (3)	3
	Ethics (3) (F, S, Su)	3
Total Credits		15

[Enter any helpful advising notes]

Approved EE Electives:

ELE 3430 - Power Electronics, ELE 3420 - Electric Power Distribution, ELE 4620 – RF & Microwave Design, ELE 4320 - Digital Filters, CPE 3500 Semiconductor Device Fundamentals, CPE 4600 - VLSI Circuits and Systems, CPE 4710 - Digital Control System Design, CPE 4330 Data Communications.