

ELECTRICAL ENGINEERING PROGRAM (2024 - 2025)

Fall of First Year (15 credits)				Spring of First Year (15 credits)			
CHEM 1210	Principles of Chemistry	4		CS 1400	Fundamentals of Programming	3	
CHEM 1215	Principles of Chemistry Lab	1		ENGL 2010	Intermediate Writing	3	
ENGL 1010	Introduction to Writing	3		MATH 1220	Calculus II	4	
ECE 1000	Introduction to Electrical and Computer Engineering	3		PHYS 2210	Physics for Scientists and Engineers I	4	
MATH 1210	Calculus I	4		PHYS 2215	Physics for Scientists and Engineers I Lab	1	
Fall of Second Year (16 credits)				Spring of Second Year (15 credits)			
Biology	Choose from the GE approved Biology List	3		ECE 2250	Circuit Theory	3	
ECE 2700	Digital Design I	3		ECE 2255	Circuit Theory Lab	1	
ECE 2705	Digital Design I Lab	1		Am.Inst.	Choose from GE approved American Institution list	3	
MATH 2210	Calculus III	4		ECE 3710	Applied Probability & Statistics for Engineers	3	
PHYS 2220	Physics for Scientists and Engineers II	4		ECE 2750	Engineering Analysis	3	
PHYS 2225	Physics for Scientists and Engineers II Lab	1		Health	HLTH 1100 or PES 1097	2	
Fall of Third Year (16 credits)				Spring of Third Year (16 credits)			
ECE 3730	Embedded Systems I	3		COMM 1020	Public Speaking	3	
ECE 3740	Digital Design II	3		ECE 3250	Energy Conversion	3	
ECE 3760	Electronic Systems	3		ECE 3350	Control Systems	3	
ECE 3765	Electronic Systems Lab	1		ECE 4730	Embedded Systems II	3	
ECE 3770	Signals and Systems	3		ECE 3780	Communication Systems and Circuits	3	
Fine Arts	Choose from the GE approved Fine Arts list	3		ECE 3785	Communication Systems and Circuits Lab	1	
Fall of Fourth Year (16 credits)				Spring of Fourth Year (16 credits)			
ECE 4900	Electrical Engineering Capstone I	3		ECE 3450	Electromagnetics & Transmission Lines	3	
COMM 2110	Interpersonal Communications	3		PHIL 205G	Ethics and Values	3	
EE Elective	Choose from the EE approved Electives	3		ECE 4950	Electrical Engineering Capstone II	3	
ECE 4700	Computer Architecture for Engineering Applications	3		EE Elective	Choose from the EE approved Electives	3	
ECE 4760	VLSI Design	3		ECE 4750	Digital Signal Processing	3	
ECE 4765	VLSI Design Lab	1		ECE 4755	Digital Signal Processing Lab	1	