

EE Technical Elective List*

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SYM	NUM	TITLE	CM Communication	CS Computing & Software	CR Controls & Robotics	DD Digital Design	EM Electromagnetics	IP Image & Information Processing	MT Materials	ME Microelectronics & Electronic Systems	PW Power & High Voltage
ECE	4193	Automotive Engineering								X	
ECE	4243	Physical Electronics							X	X	
ECE	4263	Principles of VLSI Design				X				X	
ECE	4273	Microelectronics Device Design							X	X	
ECE	4283	Microelectronics Process Design							X	X	
ECE	4313	Antennas	X				X				
ECE	4323	Electromagnetic Compatibility					X				
ECE	4333	RF and Microwave Theory	X				X				
ECE	4413	Digital Signal Processing	X	X				X			
ECE	4423	Introduction to Remote Sensing					X	X			
ECE	4613	Power Transmission Systems					X				X
ECE	4633	Power Distribution Systems									X
ECE	4643	Power Systems Relaying & Control			X						X
ECE	4653	Introduction to Power Electronics			X					X	X
ECE	4663	Insulation Coordination in Electric Power Systems							X		X
ECE	4673	Fundamentals of High Voltage Engineering							X		X
ECE	4713	Computer Architecture		X		X					
ECE	4723	Embedded Systems		X				X			
ECE	4743	Digital Systems Design		X		X					
ECE	4753	Introduction to Robotics		X	X	X				X	
ECE	4763	Information & Computer Security	X	X							
ECE	4813	Communications Theory	X								
ECE	4823	Digital Communications	X	X				X			
ECE	4833	Data Communications & Computer Networks	X	X							
ECE	4843	Error Correcting Digital Codes	X	X							
ECE	4853	Electro-Optics	X						X	X	
ECE	4913	Feedback Control Systems I			X						
ECE	4923	Feedback Control Systems II		X	X			X			
ECE	4933	State Space Design & Instrumentation			X			X			

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ECE	4990	Applied PLCs		X	X						
ECE	4990	Automobile Applications in Power Electronics								X	X
ECE	4990	Fiber Optics	X				X		X		
ECE	4990	Hybrid Electric Vehicle Design			X					X	X
ECE	4990	Introduction to Power Quality									X
ECE	4990	Introduction to Scientific Visualization		X				X			
ECE	4990	Introduction to Visualization Tools		X				X			
ECE	4990	Multimedia Signal Processing	X	X				X			
ECE	4990	Medical Applications of Electromagnetics	X	X			X				
ECE	4990	Model-Based Systems Design of Hybrid Electric Vehicles	X							X	X
ECE	4990	Nanoelectronic Devices							X	X	
ECE	4990	Network Process Architecture	X	X							
ECE	4990	Programmable Logic Controllers		X	X						
ECE	4990	Power Systems Analysis					X				X
ECE	4990	RF Circuits Design	X							X	
ECE	4990	RF Systems Design	X				X			X	
ECE	4990	Visual Analysis for Engineers		X				X			

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