

Planned Graduate ECE Course Offerings

Fall 2009 – Spring 2011

This pattern of course offerings is subject to change without notice. Any graduate ECE course not listed below is not being planned at this time to be offered in the Fall 2009 to Spring 2011 (inclusive) timeframe. This list does not reflect all of the graduate ECE courses to be introduced by the new faculty hired for the 2009-2010 academic year. **Shaded classes are CE major classes.**

Graduate ECE Course	Fall 2009	Spring 2010	Fall 2010	Spring 2011
380K Intro. to System Theory	X		X	
380L-5 Eng. Programming Lang.	X		X	
380L-6 Interfacing to Operating Sys.		X		X
380L-7 Intro Patt Rec & Comp Vision			X	
380L-8 Computer Vision Systems				X
380L-10 Data Mining		X		X
380N-5 Stochastic Control Theory				X
380N-7 Control of Manufacturing Sys	X		X	
380N-9 Robotics and Mechatronics	X		X	
380N-11 Optimization in Eng. Sys				X
381J Probability & Stoch. Proc. I	X		X	
381K-2 Digital Communications		X		X
381K-5 Adv. Telecom Networks			X	
381K-6 Estimation Theory		X		
381K-7 Information Theory		X		X
381K-8 Digital Signal Processing	X		X	
381K-11 Wireless Communications				X
381K-13 Analysis/Des of Comm Nets		X		X
381V Wireless Communications Lab	X		X	
381V Modulation & Multiple Access			X	
381V Space-Time Communication	X			
381V Convex Optimization Theory	X			
381V Genomic Signal Processing			X	
381V Topics in Network Science	X			
382C-3 Verification of Software	X		X	
382C-7 Software Architectures	X			
382C-10 Empirical Studies in SW Eng				
382M-1 VLSI Testing		X		
382M-2 Dependable Computing				X
382M-7 VLSI I	X	X	X	X
382M-8 VLSI II		X		X

Graduate ECE Course	Fall 2009	Spring 2010	Fall 2010	Spring 2011
382M-11 Formal Verification		X		
382M-14 Analog IC Design	X		X	
382M-15 Comp. Perf. Eval. & Bench.	X			
382M-16 Application-Specific Proc.		X		X
382M-19 Mixed-Signal Sys. Design	X		X	
382N-4 Adv. Embedded Micro. Sys.	X			
382N-5 Comm Nets: Tech/Arch/Prot	X		X	
382N-10 Parallel Computer Arch.	X			
382N-11 Distributed Systems I			X	
382N-14 High-Speed Comp. Arith. I	X		X	
382N-17 Superscalar Microproc Arch.			X	
382N-19 Microarchitecture		X		
382V RF IC Design	X		X	
382V Analog/RF IC for Wireless				X
382V Integrated Sensors				X
382V Nanoscale IC Design	X			
382V CAD for Deep Submicron Des			X	
382V VLSI Physical Des. Automation			X	
382V Opt. Issues in VLSI CAD	X			
382V System on a Chip Design		X		X
382V Emb. Sys. Des. & Modeling	X		X	
382V Comp Arch: User-System Inter		X		X
382V Principles of Computer Arch.	X		X	
382V Software for High-Perf Comp		X		
382V Software Evolution	X		X	
382V Collaborative Design				
382V Mobile Computing		X		
382V Formal Methods in Dist Comp				X
382V Wireless & Mobile Networks		X		X
383L Electromagnetic Field Theory	X		X	
383M Microwave Field Theory		X		
383N Electrodynamics	X			
383P-1 Fourier Optics				
383P-6 Optoelectronic Devices		X		X
383P-8 Optical Communications		X		X
383V Nonlinear Optics	X		X	
383V Radar Principles				X
383V Comp. Electromagnetics				X
383V Electromagnetic Metamaterials			X	
384N-1 Acoustics I	X		X	
384N-2 Acoustics II		X		X

Graduate ECE Course	Fall 2009	Spring 2010	Fall 2010	Spring 2011
384N-3 Electromechanical Transducers	X		X	
384N-4 Nonlinear Acoustics				X
384N-5 Underwater Acoustics	X			
384N-6 Architectural Acoustics				X
384N-7 Ultrasonics		X		
384V Acoustical MEMS				X
385J-9 Laser-Tissue Interaction Ther		X		X
385J-17 Biomedical Instr II				X
385J-18 Biomedical Imaging	X			
385J-23 Optical Spectroscopy	X		X	
385J-26 Therapeutic Heating		X		
385J-31 Biomedical Instr I	X		X	
385J-32 Projects in Biomedical Eng		X		X
385J-33 Neurophys/Prosthetic Des	X			
385V Biosensors and Bioelectronics		X		
390C Statistics for Eng & Qual Assur		X		X
392K Antenna Theory & Practice		X		
394-7 Power Electronic Dev & Sys	X	X	X	X
394-9 Power Quality	X			
394-13 Int. Motion for Robotics/Cont		X		X
394-14 Electrical Transients				X
394J-1 Power System Eng I				X
394J-2 Power System Eng II		X		
394V Power System Apparatus & Lab		X		X
394V Distribution & Gen. Tech.			X	
396K-2 Semiconductor Physics		X		X
396K-8 VLSI Fabrication Techniques	X	X	X	X
396K-9 Localized vs Itin. Elec. Solids	X		X	
396K-16 Semiconductor Lasers	X			
396K-19 Plasma Proc. Semicond I	X			
396K-20 Plasma Proc. Semicond II			X	
396K-21 Submicron Dev Phy & Tech	X		X	
396K-23 Semiconductor Heterostruct	X		X	
396K-24 Microwave Devices		X		
396K-25 Organic & Polymer Semicon	X		X	
396V Nanostructured Optoelectronics				X
396V Photovoltaic Devices		X		X
396V Intro Solid State Prop Materials		X		X
396V Semiconductor Nanostructures		X		
396V Carbon Nanotube and Graphene Nanoelectronics		X		