

Graduate Courses

You may find additional information from the [University Graduate Catalog](#)

Regular Course offerings:

Course Number	Semester or Term Offered				Name
	Fall	Winter	Spring	Summer	
EC En 521	X				Introduction to Algorithm Design
EC En 523		Odd years			Computer System Reliability
EC En 541	X				Active and Passive Filter Design
EC En 543		X			CMOS Amplifier Design
EC En 548	Even years				Analog CMOS Circuit Design
EC En 549			X		VLSI Communication Circuit Design
EC En 550	Even years				Microelectromechanical Systems (MEMS)
EC En 555	Odd years				Optoelectronic Devices
EC En 560		Even years			Electromagnetic Wave Theory
EC En 562		Odd years			Optical Communication Components and Systems
EC En 563	X				Applied Computational Electromagnetics
EC En 564	Odd years				Radar and Communication Systems
EC En 568	Even years				Microwave Remote Sensing
EC En 576	Odd years				Medical Imaging
EC En 620	X				Advanced Digital Systems
EC En 621		Even years			Computer Arithmetic
EC En 625	Odd years				Compilation Strategies for High-Performance Systems
EC En 628	X (528 from 2014)				Advanced Computer Architecture
EC En 629		Even years			Reconfigurable Computing Systems
EC En 631		X			Robotic Vision
EC En 648	Odd years				Advanced Mixed-Signal Circuit Design
EC En 661	Even years				Advanced Optical Engineering
EC En 662R (for now)	Even years				Electromagnetic Properties of Materials
EC En 665		Odd years			Antennas and Propagation
EC En 670	X				Stochastic Processes
EC En 671	X				Mathematics of Signals and Systems
EC En 672		X			Detection and Estimation Theory
EC En 673			Even years		Digital Control (cross-listed as MeEn 633)
EC En 674	X				Flight Dynamics and Control (cross-listed as MeEn 634)
EC En 692	X				Professional Writing for EC En
EC En 699R	X	X	X	X	Master's Thesis
EC En 773		Odd years			Linear System Theory

EC En 774		Even years			Nonlinear System Theory
EC En 777	X				Digital Signal Processing
EC En 799R	X	X	X	X	Doctoral Dissertation

Recent and planned special topics offerings (522R, 542R, 662R, 682R):

Note: Recent offerings are listed for historical purposes only; special topics courses are not regular courses and do not repeat. Some special topics courses prior to 2005 may not be listed.

Course Number	Semester or Term Offered				Name	Instructor
	Fall	Winter	Spring	Summer		
EC En 662R	2014				Electromagnetic Material Properties	Mazzeo
EC En 662R		2014			Physical Optics	Nordin
EC En 522R		2013			Computer System Reliability	Wirthlin
EC En 522R		2013			Compiler Analysis and Optimization	Penry
EC En 662R	2012				Electromagnetic Material Properties	Mazzeo
EC En 662R		2012			Physical Optics	Nordin
EC En 682R		2012			Medical Imaging	Bangeter
EC En 542R	2011				Wireless CMOS Circuits and Systems	Comer
EC En 522R		2011			Introduction to Algorithms	Hutchings
EC En 522R	2010				Computer System Reliability	Wirthlin
EC En 662R	2010				Electromagnetic Material Properties	Mazzeo
EC En 522R		2010			Introduction to Algorithms	Hutchings
EC En 662R		2010			Physical Optics	Nordin
EC En 662R		2010			Heterostructure Devices	Selfridge
EC En 542R	2009				Wireless CMOS Circuits and Systems	Comer
EC En 682R	2009				Graduate Writing	Beard
EC En 682R	2009				Biomedical Imaging	Bangeter
EC En 522R		2009			Introduction to Algorithms	Hutchings
EC En 682R		2009			Graduate Seminar	Wirthlin
EC En 522R	2008				Computer System Reliability	Wirthlin
EC En 682R	2008				Graduate Writing	Beard
EC En 682R	2008				Graduate Seminar	Wirthlin
EC En 662R		2008			Physical Optics	Nordin
EC En 662R		2008			Advanced Semiconductor Devices	Selfridge
EC En 542R	2007				Wireless MDS Communication Systems and Circuits	Dave Comer
EC En 522R		2007			Advanced Writing for Graduate Students	Tanner
EC En 522R		2007			Geometry of Camera Imaging	Taylor/Archibald
EC En 662R		2007			Physical Optics	Nordin
EC En 662R		2007			Antennas and Propagation for Wireless Communications	Warnick
EC En 522R	2006				Agents	Archibald
EC En 522R		2006			Advanced Writing for Graduate Students	Tanner
EC En 662R		2006			Special Topics EM	
EC En 522R		2005			Computer Vision	Lee
EC En 522R		2005			Code Generation	Nelson
EC En 522R		2005			Embedded System Co-Design	Wilde
EC En 662R		2005			Special Topics EM	Warnick
EC En 662R		2005			Advanced Writing	Tanner
EC En 522R	2004				Robots	Archibald
EC En 542R	2004				Opto-Electronic Devices	Hawkins
EC En 662R	2004				Advanced Optical Engineering	Schultz
EC En 522R		2004			Computer Vision	Lee
EC En 542R	2003				Opto-Electronic Devices	Hawkins
EC En 662R	2003				Advanced Optical Engineering	Selfridge
EC En 662R	2003				Fields and Propagation for Wireless Communications	Jensen
EC En 522R	2002				Special Topics in Computer Systems	Archibald
EC En 662R	2002				Advanced Optical Engineering	Schultz

Courses listed in the University Graduate Catalog which are not currently scheduled:

Course Number	Semester or Term Offered				Name
	Fall	Winter	Spring	Summer	
EC En 627					Advanced Embedded Systems
EC En 654					VLSI Systems Design

EC En 678				Digital Image Processing
EC En 770	Even years			Information Theory
EC En 775	Odd years			Error-Control Coding
EC En 776				Advanced Digital and Wireless Communication

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