

Revised EL Course Listing, Effective Fall 2007

New Course Number and Title	Old Number
EL 5013 Wireless Personal Communications Systems	EL501
EL 5023 Wireless Information Systems Lab I	EL930
EL 5033 Wireless Information Systems Lab II (new)	EL933 (special topics)
EL 5123 Image Processing	EL512
EL 5143 Multimedia Laboratory	EL514
EL 5213 Introduction to System Engineering (new course)	
EL 5223 Sensor Based Robotics	EL522
EL 5253 Applied Matrix Theory	EL525
EL 5363 Principles of Communication Networks	EL536 , EL5364
EL 5373 Internet Architecture and Protocols	EL537, EL5374
EL 5463 Introduction to RF/Microwave Integrated Circuits	EL546
EL 5473 Introduction to VLSI Design	EL547
EL 5483 Real Time Embedded Systems	EL548
EL 5493 Advanced Computer Hardware Design	EL549
EL 5513 Electro Optics I	EL551
EL 5523 Electro Optics II	EL552
EL 5533/PH 5493 Physics of Nanoelectronics	EL553/PH549
EL 5553/PH 5553 Physics of quantum computing (new course)	
EL 5613 Introduction to Electric Power Systems	EL561
EL 5663 /PH5663 Physics of Alternative Energy (new course)	
EL 5673 Electronic Power Supplies	EL567
EL 5683 Electric Drives Characteristics and Controls	EL568
EL 5713 Microwave Engineering Laboratory/Project	EL970
EL 5733 RF and Microwave Systems Engineering	EL573
EL 5753 Introduction to Plasma Engineering	EL575
EL 5813/BE6503 Biomedical Instrumentation	EL581/BE650
EL 5823/BE6203 Medical Imaging I	EL582/BE620
	EL591-599 deleted
EL 6013 Principles of Digital Communications: Modulation and Coding	EL601, 6014
EL 6023 Wireless Communications: Channel Modeling and Impairment Mitigation	EL602, 6024
EL 6033 Modern Wireless Communication Techniques and Systems	EL603, 6034
	EL604 deleted
EL 6063 Information Theory	EL606
EL 6073 Error control coding (name change)	EL607 Coding Theory
EL 6113 Signals, Systems and Transforms	EL611, 6114
EL 6123 Video Processing	EL612
EL 6183 Digital signal processing lab (new course)	EL912 (special topics)
EL 6213 System Modeling, Analysis and Design (new course)	Note: EL621 is renamed to EL6243
EL 6223 Nonlinear and Sampled-Data Control Systems	EL622
EL 6233 System Optimization Method	EL623
EL 6243 System Theory and Feedback Control	EL621
EL 6253 Linear Systems	EL625
EL 6303 Probability Theory (name change)	EL630

EL 6313 Stochastic Processes (name change)	EL631
EL 6333 Detection and Estimation Theory	EL633

New Course Number and Title	Old Number
EL 6373 Local and Metropolitan Area Network	EL637
EL 6383 High-Speed Networks	EL638, 6384
EL 6393 Advanced Network Security (name change)	EL639
EL 6413 Analog and High Frequency Amplifier Design	EL641, 6414
EL 6423 RF Electronics for Wireless Applications	EL642
EL 6433 Digital Integrated Circuit Design	EL643
EL 6443 VLSI System and Architecture Design	EL644
EL 6583 Fiber Optic Communications	EL658
EL 6603 Power Electronics	EL660
EL 6623 Power Systems Economics and Planning	EL662
EL 6633 Transients, Surges and Faults in Power Systems	EL663
EL 6643 Relay Fault Protection	EL664
EL 6653 Power System Stability	EL665
EL 6663 Distributed Generation Systems	EL666
EL6683 Adjustable Speed Drives (new course)	
EL 6713 Electromagnetic Theory and Applications	EL671
EL 6723 Electromagnetic Radiation and Antennas	EL672
EL 6753 UHF Propagation for Wireless Systems	EL675
EL 6823/BE 6213 Medical Imaging II	EL682/BE621
EL 7023 Space Time Wireless Communications	EL702
EL 7133 Digital Signal Processing	EL713, 7134
EL 7153 Array signal processing (new course)	
EL 7163 Wavelet Transforms and Filter Banks (name change)	EL716
EL 7253 State Space Design for Linear Control Systems	EL725
EL 7353 Communication Networks I: Analysis, Modeling and Performance	EL735, 7353
EL 7363 Communication Networks II: Design and Algorithms	EL736
EL 7373 High Performance Switches and Routers	EL737
EL 8223 Applied Nonlinear Control	EL822
EL 8233 Optimal Control Theory	EL823
EL 8253 Large-Scale Systems and Decentralized Control	EL825

Field Code Changed

New Course Number and Title	Old Number
EL 9013-9093 Selective Topics in Wireless Communications	EL901-909
EL 9113-9193 Selected Topics in Signal Processing	EL911-919
EL 9213-9293 Selected Topics in Control Engineering	EL921-929
EL 9313-9393 Selected Topics in Telecommunications and Networking from Information Science	EL931-939
EL 9413-9493 Selected Topics in Computer Electronic Devices and Systems	EL941-949
EL 9513-9593 Selected Topics in Electro-Optics, Quantum Electronics and Material Science	EL951-959
EL 9613-9693 Selected Topics in Power Engineering	EL961-969
EL 9713-9793 Selected Topics in Electrodynamics, Wave Phenomena and Plasmas	EL971-979
EL 9900 Seminar in Electrical and Computer Engineering (new course)	
EL 9920 Summer Graduate Internship	EL992
EL 9933/9943 Readings in Electrical Engineering I/II	EL993/994
EL 9953/9963 Advanced Projects I/II	EL995/996
EL 997x Thesis for Degree of Master of Science in Electrical Engineering, Computer Engineering, Electrophysics, or System Engineering (name change)	EL997
EL 999x Dissertation for Degree of Doctor of Philosophy in Electrical Engineering	EL999

Updated 3/15/2007, Yao Wang