PROJECTED COURSES

COURSE	COURSE NAME	GROUP	HRS	OFFERED
ECEN600 DL	Experimental Optics	DSN	2-7	Every other year
ECEN601 DL	Mathematical Methods in Signal Processing	ISLS	3-0	Every year
ECEN602 DL	Computer Communication and Networking	CE	3-0	Every year
ECEN605 DL	Linear Multivariable Systems	ISLS	3-0	Every other year
ECEN606	Nonlinear Control Systems	PWR	3-0	Offered occasionally
ECEN607 DL	Advanced Analog Circuit Design Techniques	AMS	3-2	Every year
ECEN608 DL	Modern Control	ISLS	3-0	Offered occasionally
ECEN609 DL	Adaptive Control	ISLS	3-0	Offered occasionally
ECEN610 DL	Mixed-Signal Interfaces	AMS	3-2	Every year
ECEN611	General Theory of Electromechanical Motion Devices	PWR	3-0	Every other year
ECEN612	Computer Aided Design of Electromechanical Motion Devices	PWR	3-3	Offered occasionally
ECEN613 DL	Rectifier and Inverter Circuits	PWR	3-0	Every year
ECEN614 DL	Power System State Estimation	PWR	3-0	Offered occasionally
ECEN615 DL	Methods of Electric Power Systems Analysis	PWR	3-0	Every year
ECEN616	Power System Electromagnetic Transients	PWR	3-0	Offered occasionally
ECEN619	Internet Protocols and Modeling	CE	3-0	Every year
ECEN620 DL	Network Theory	AMS	3-0	Every year
ECEN621	Mobile Wireless Networks	CE	3-0	Every year
ECEN622 DL	Active Network Synthesis	AMS	3-0	Offered occasionally
ECEN625	Millimeter-wave Integrated Circuits	AMS	3-0	Offered occasionally
ECEN626	Antenna Theory and Technique	EM	2-3	Offered occasionally
ECEN628 DL	Robust and Optimal Control	ISLS	3-0	Offered occasionally
ECEN629 DL	Applied Convex Optimization	ISLS	3-0	Every year
ECEN630	Analysis of Power Electronic Systems	PWR	3-0	Offered occasionally
ECEN632 DL	Motor Drive Dynamics	PWR	3-0	Offered occasionally
ECEN635 DL	Electromagnetic Theory	EM	3-0	Every year
ECEN636 DL	Phased Arrays	EM	3-0	Offered occasionally
ECEN637 DL	Numerical Methods in Electromagnetics	EM	3-0	Offered occasionally
ECEN638 DL	Antennas and Propagation	EM	3-0	Offered occasionally
ECEN639	Microwave Circuits	EM	3-0	Offered occasionally
ECEN640	Thin Film Science and Technology	DSN	3-1	Every year
ECEN641	Microwave Solid-State Integrated Circuits	EM	3-0	Offered occasionally
ECEN642 DL	Digital Image Processing	ISLS	3-0	Every other year
ECEN643	Electric Power System Reliability	PWR	3-0	Offered occasionally
ECEN644 DL	Discrete-Time Systems	ISLS	3-0	Offered occasionally

COURSE	COURSE NAME	GROUP	HRS	OFFERED
ECEN646	Probability and Random Processes for Information Science	ISLS	3-0	Every year
ECEN647 DL	Information Theory	ISLS	3-0	Offered occasionally
ECEN648	Principles of Magnetic Resonance Imaging	BIO	3-0	Offered occasionally
ECEN649 DL	Pattern Recognition	BIO	3-0	Every other year
ECEN651	Microprogrammed Control of Digital Systems	CE	3-3	Every year
ECEN653	Computer Arithmetic Unit Design	CE	3-0	Every year
ECEN654	Very Large Scale Integrated Systems Design	CE	3-3	Offered occasionally
ECEN658	Low-Noise Electronic Design	DSN	3-0	Every other year
ECEN660	BioMEMS and Lab-on-a-Chip	BIO	3-0	Offered occasionally
ECEN662	Estimation and Detection Theory	ISLS	3-0	Offered occasionally
ECEN664	Nanotechnology Fabrication	DSN	3-0	Offered occasionally
ECEN665 DL	Integrated CMOS RF Circuits and Systems	AMS	3-2	Every year
ECEN666	Power System Faults and Protective Relaying	PWR	3-0	Offered occasionally
ECEN667 DL	Power System Stability	PWR	3-0	Offered occasionally
ECEN668	High Voltage Direct Current (HVDC) Transmission	PWR	3-0	Offered occasionally
ECEN669 DL	Engineering Applications in Genomics	BIO	3-0	Offered occasionally
ECEN671	Solid State Devices	DSN	3-0	Every year
ECEN676 DL	Advanced Computer Architecture	CE	3-0	Every year
ECEN679	Computer Relays for Electric Power Systems	PWR	3-0	Offered occasionally
ECEN681	Seminar			Every term
ECEN683	Wireless Communication Systems	ISLS	3-0	Offered occasionally
ECEN684	Professional Internship			Every term
ECEN685	Directed Studies			Every term
ECEN686	Electric and Hybrid Vehicles	PWR	3-0	Every other year
ECEN687 DL	Introduction to VLSI Physical Design Automation	CE	3-0	Offered occasionally
ECEN688	IC MEMS and Sensor Fabrication	DSN	3-3	Every year
ECEN689	Special Topics in			Every term
ECEN691	Research			Every term
ECEN694	Nanobiotechnology	DSN	3-0	Offered occasionally
ECEN704 DL	VLSI Circuit Design	AMS	3-3	Every year
ECEN711	Sustainable Energy and Vehicle Engineering	PWR	3-0	Offered occasionally
ECEN714 DL	Digital Integrated Circuit Design	CE	2-2	Every term
ECEN715 DL	Physical and Economical Operations of Sustainable Energy Systems	PWR	3-0	Every year
ECEN720 DL	High-Speed Links Circuits and Systems	AMS	3-3	Offered occasionally
ECEN721 DL	Optical Interconnects Circuits and Systems	AMS	3-0	Offered occasionally
ECEN722 DL	Field Programmable Gate Arrays Information Processing Systems	CE	3-2	Every year
ECEN732	Online Decision Making and Learning	CE	3-0	Offered occasionally
ECEN733	Advanced Micromachining Technologies for the Informational Era	DSN	3-0	Every year

COURSE	COURSE NAME	GROUP	HRS	OFFERED
ECEN735	Electromagnetic Field Theory	EM	3-0	Offered occasionally
ECEN738	Power Electronics	PWR	3-3	Every year
ECEN741	Electronic Motor Drives	PWR	3-3	Every year
ECEN742	DSP Based Electromechanical Motion Control	PWR	2-3	Every year
ECEN743 DL	Reinforcement Learning	ISLS	3-0	Every other year
ECEN740 DL	Machine Learning Engineering	CE	3-0	Every year
ECEN744	Scientific Machine Learning	CE	3-0	Every year
ECEN748	Data Stream Algorithms and Applications	CE	3-0	Offered occasionally
ECEN749 DL	Microprocessor Systems Design	CE	2-2	Every term
ECEN750 DL	Design and Analysis of Communication Networks	CE	3-0	Offered occasionally
ECEN752	Advances in VLSI Circuit Design	CE	3-0	Every other year
ECEN753	Theory and Applications of Network Coding	CE	3-0	Every other year
ECEN754	Optimization for Electrical and Computer Engineering Applications	CE	3-0	Offered occasionally
ECEN755	Stochastic Systems	CE	3-0	Offered occasionally
ECEN756 DL	Game Theory	CE	3-0	Offered occasionally
ECEN757 DL	Distributed Systems and Cloud Computing	CE	3-0	Every year
ECEN758 DL	Data Mining and Analysis	CE	3-0	Every year
ECEN759 DL	Hardware Security	CE	3-0	Offered occasionally
ECEN760 DL	Introduction to Probabilistic Graphical Models	BIO	3-0	Every year
ECEN761	Biosensors Lab	BIO	2-2	Offered occasionally
ECEN762	Advanced Ultrasound Imaging Techniques	BIO	3-0	Offered occasionally
ECEN763	Magnetic Resonance Engineering	BIO	2-3	Every year
ECEN764	Medical Imaging	BIO	3-2	Offered occasionally
ECEN765	Machine Learning with Networks	BIO	3-0	Every year
ECEN766 DL	Algorithms in Structural Bioinformatics	BIO	3-0	Every other year
ECEN767	Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems	DSN	3-3	Every year
ECEN768	Bioelectronics	BIO	3-0	Offered occasionally
ECEN769	Materials Informatics	BIO	3-0	Offered occasionally
ECEN771	Fluctuations and Noise Electronics	DSN	3-0	Offered occasionally
ECEN772	Introduction to Microelectromechanical Devices and Systems	DSN	3-0	Every year
ECEN773	Introduction to Nanophotonics	DSN	3-0	Offered occasionally
ECEN774	Laser Principles and Applications	DSN	3-0	Every other year
ECEN776	Unconditionally Secure Electronics	DSN	3-0	Every year
ECEN777	Photonics: Fiber and Integrated Optics	DSN	3-3	Every year

Please note that this is not a guarantee of course offerings, but rather a tentative guide.

DL denotes a course that is available through distance learning.



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