

10/7/2015

FREQUENCY OF ELECTRICAL ENGINEERING COURSE OFFERINGS

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	SPRING	SUMMER	FALL
Elec Eng 2100 / Circuits I	✓	✓	✓
Elec Eng 2101 / Circuit Analysis Laboratory I	✓	✓	✓
Elec Eng 2120 / Circuits II	✓	✓	✓
Elec Eng 2200 / Introduction to Electronic Devices	✓	✓	✓
Elec Eng 2201 / Electronic Devices Laboratory	✓	✓	✓
Elec Eng 2800 / Electrical Circuits	✓	✓	✓
Elec Eng 3100 / Electronics I	✓	✓	✓
Elec Eng 3101 / Electronics I Laboratory	✓	✓	✓
Elec Eng 3120 / Electronics II	✓		✓
Elec Eng 3121 / Electronics II Laboratory	✓		
Elec Eng 3250 / Electronic & Photonic Devices	✓		✓
Elec Eng 3320 / Control Systems	✓	✓	✓
Elec Eng 3321 / Control Systems Lab	✓		✓
Elec Eng 3340 / Controllers for Factory Automation	✓		✓
Elec Eng 3400 / Continuous Linear Systems	✓		✓
Elec Eng 3401 / Continuous Linear Systems Laboratory	✓		✓
Elec Eng 3410 / Digital Signal Processing (old name Discrete Linear Systems)	✓		✓
Elec Eng 3411 / Discrete Linear Systems Laboratory	✓		✓
Elec Eng 3420 / Communication Systems			✓
Elec Eng 3500 / Electromechanics	✓		✓
Elec Eng 3501 / Electromechanics Laboratory	✓		✓
Elec Eng 3540 / Power System Design & Analysis	✓		✓
Elec Eng 3541 / Power System Design & Analysis Laboratory	✓		✓
Elec Eng 3600 / Electromagnetics	✓	✓	✓
Elec Eng 4001 / Special Topics – test a new course (undergraduate/graduate)	Demand		Demand
Elec Eng 4096 / Electrical Engineering Senior Project I	✓		✓
Elec Eng 4097 / Electrical Engineering Senior Project II	✓		✓
Elec Eng 4380 / Practicum in Automation Engineering	Demand		Demand
Elec Eng 5070 / Teaching Engineering *co-listed with Eng Mgt 5414, Env Eng 5070, Civ Eng 5070, & Comp Eng 5070 (Engineering Management teaches this course with their instructor.)		Demand	
Elec Eng 5100 / Advanced Electronic Circuits	Demand		Demand
Elec Eng 5120 / Communication Circuits			OY
Elec Eng 5140 / High-Frequency Amplifiers			EY
Elec Eng 5150 / Photovoltaic Systems Engineering (Kimball 2/3 – Wu 1/3)	EY		
Elec Eng 5160 / Computer-Aided Network Design	Demand		Demand
Elec Eng 5170 / Introduction to Circuit Synthesis	OY (dem)		
Elec Eng 5200 / Classical Optics * co-listed with Physics 4503 (Physics teaches this course with their instructor.)			✓
Elec Eng 5210 / Fourier Optics * co-listed with Physics 5503 (EE teaches this course.) - Watkins	EY		
Elec Eng 5220 / Fiber & Integrated Optics *co-listed with Physics 5513	OY		
Elec Eng 5250 / Optical Computing *co-listed with Comp Eng 5230			✓

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Elec Eng 5270 / Smart Materials & Sensors *co-listed with Civ Eng 5729, Aero Eng 5229, Mech Eng 5229			✓
Elec Eng 5300 / Digital Control	✓		
Elec Eng 5310 / Computational Intelligence *co-listed with Comp Eng 5310			✓
Elec Eng 5320 / Neural Networks Control and Applications (new course title spring 2016) / (old title / Neural Networks for Control)			EY
Elec Eng 5330 / Fuzzy Logic Control			OY
Elec Eng 5340 / Advanced Plc			✓
Elec Eng 5350 / Plantwide Process Control *co-listed with Chem Eng 5190	✓		
Elec Eng 5360 / System Simulation & Identification			OY
Elec Eng 5370 / Introduction to Neural Networks & Applications *co-listed with Sys Eng 5212 (Systems Engr teaches this course with their instructor.)			✓
Elec Eng 5380 / Autonomous Mobile Robots			✓
Elec Eng 5400 / Digital Signal Processing II (new course title spring 2016) / (old title / Digital Signal Processing)			✓
Elec Eng 5420 / Communications Systems II	✓		
Elec Eng 5430 / Wireless Networks *co-listed with Comp Eng 5430, Sys Eng 5323	✓		
Elec Eng 5440 / Stochastic Signal Analysis I			✓
Elec Eng 5450 / Digital Image Processing *co-listed with Comp Eng 5450			✓
Elec Eng 5460 / Machine Vision *co-listed with Comp Eng 5460	✓		
Elec Eng 5500 / Electric Drive Systems	✓		
Elec Eng 5510 / Electric-Drive Vehicles			Demand
Elec Eng 5520 / Power Electronics			✓
Elec Eng 5521 / Power Electronics Laboratory	✓		
Elec Eng 5540 / Power Systems Engineering			✓
Elec Eng 5550 / Electric Power Quality	✓		
Elec Eng 5560 / Electrical Distribution System			Demand
Elec Eng 5570 / Extra High Voltage Engineering			Demand
Elec Eng 5600 / Interference Control in Electronic Systems Grounding & Shielding (Grounding & Shielding – old course name.)			✓
Elec Eng 5620 / Signal Integrity in High-Speed Digital & Mixed Signal Design *co-listed with Comp Eng 5620	✓		
Elec Eng 5630 / Wave Propagation & Transmission Lines	OY		
Elec Eng 5640 / Antennas & Propagation			✓
Elec Eng 5650 / Microwave and Millimeter Wave Engineering and Design (new course title spring 2016) / (old title / Microwave And Millimeter Wave Engineering And Design)			OY
Elec Eng 5660 / Microwave Principles for Mixed-Signal Design			EY
Elec Eng 5670 / Nondestructive Testing *co-listed with Met Eng 5510 (This course is team taught by Reza Zoughi & Von Richards.)	✓		
Elec Eng 5870 / Mechatronics *co-listed with Aero Eng 5478, Comp Eng 5820, Mech Eng 5478 (Mechanical Engr teaches this course with their instructor.)	✓		

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Elec Eng 5880 / Introduction to Robotics *co-listed with Comp Sci 5803, Comp Eng 5880 (Computer Science decides who will teach course and if course will be taught.)			✓
Elec Eng 6001 / Special Topics – test a new course (graduate)	Demand	Demand	Demand
Elec Eng 6140 / Advanced RF & Time Domain Measurements	EY		
Elec Eng 6150 / Signal Integrity, High-Speed Digital & RF Design Lab			OY
Elec Eng 6200 / Electromagnetic Optics			Demand
Elec Eng 6220 / Optical & Quantum Electronics			✓
Elec Eng 6240 / Semiconductor Devices	OY		
Elec Eng 6260 / Integrated Microsystems Engineering			✓
Elec Eng 6290 / Advanced Topics in Optics & Devices	Demand		
Elec Eng 6300 / Linear Control Systems			✓
Elec Eng 6310 / Optimal Control & Estimation	✓		
Elec Eng 6320 / Nonlinear Control Systems	OY		
Elec Eng 6330 / Robust Control Systems			✓
Elec Eng 6340 / Clustering Algorithms co-listed with Comp Eng 6330, Comp Sci 6405, Stat 6239, Sys Eng 6214	EY		
Elec Eng 6350 / Neural Network Control of Nonlinear Continuous-time Systems			Demand
Elec Eng 6360 / Adaptive Dynamic Programming (new course title fall 2015) / (old title / Adaptive Critic Designs) *co-listed with Comp Eng 6320, Mech Eng 6458, Aero Eng 6458, Sys Eng 6215	OY		
Elec Eng 6390 / Current Topics in Control Theory	Demand		Demand
Elec Eng 6400 / Advanced Digital Signal Processing (new course title spring 2016) / (old title / Digital Signal Processing II)	✓		
Elec Eng 6410 / Information Theory & Coding			EY
Elec Eng 6420 / Wireless Communications	Demand		
Elec Eng 6430 / Wireless Ad hoc & Sensor Networks *co-listed with Comp Eng 6430, Sys Eng 6324			Demand
Elec Eng 6440 / Stochastic Signal Analysis II	EY		
Elec Eng 6450 / Statistical Decision Theory	OY		
Elec Eng 6490 / Advanced Topics in Communications	Demand		Demand
Elec Eng 6500 / Advanced Theory of Electric Machines			EY
Elec Eng 6510 / Advanced Electric-Drive Vehicles (new course name as of fall, 2011) (Old course name / Electric and Hybrid Vehicles)	EY		
Elec Eng 6520 / Advanced Power Electronics	OY		
Elec Eng 6525 / Power Converter Modeling & Design (new course SP 13)			OY
Elec Eng 6530 / Power System Reliability			EY
Elec Eng 6540 / Computer Methods in Power System Analysis			OY
Elec Eng 6550 / Power System Stability	OY		
Elec Eng 6560 / Power System Protection			OY
Elec Eng 6570 / Surge Phenomena in Power Systems	EY		
Elec Eng 6580 / Power System Operations			EY
Elec Eng 6600 / Advanced Electromagnetics I	✓		

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Elec Eng 6610 / Electromagnetic Waves II			Demand
Elec Eng 6630 / Computational Electromagnetics			EY
Elec Eng 6640 / Advanced Topics in Antenna Analysis & Design (Offer class for the first time as permanent class SP 2012).	EY		
Elec Eng 6690 / Topics in EMC & High-Speed Digital Design)	Demand		
Elec Eng 6810 / Philosophy of Scientific Research *co-listed Chem Eng 6340, Civ Eng 6940, Env Engr 6940, Comp Eng 6810 (Chemical Engr teaches this course with their instructor.)			✓
Elec Eng 6880 / Advanced Topics in Robotics *co-listed with Comp Eng 6880, Comp Sci 6403 (Computer Science teaches this course with their instructor.)			✓