Quarter to Semester Course Conversion Table Template

MS in Electrical Engineering

Subject	Cat. No.	Title	Units	Fall	Winter	Spring	Summer	Subject	Cat. No.	Title	Units	Fall	Spring	Summer	Pre-Requisites & Co-Requisites
EE	412	Antennas	4				X	EE	4230	Antennas	3		X		Co-requisite: EE 3050
EE	413	Systems Engineering	4	X				EE	4130	Systems Engineering	3	X	X		Prerequisites: EE 3600
EE	420	Digital Communication Systems	4			X		EE	4200	Digital Communication Systems	3	X			Prerequisite: EE 3200, EE 3040
EE	421	Coding For Communications	4	X				EE	4210	Coding For Commnunications	3		X		Prerequisite: EE 3200
EE	422	Digital Signal Processing	4			X		EE	4220	Digital Signal Processing	3	X	X		Prerequisite: EE 3200
EE	424	Fiber Optics	4		X			EE	4240	Fiber Optics	3	X			Prerequisite: EE 3200
EE	426	Digital Image Processing	4			X		EE	4250	Digital Image Processing	3		X		Prerequisite: EE 3200
EE	427	Speech Signal Processing	4					**No longer in the program**							
EE	428	Digital Signal Processing Laboratory	1	X		X		EE	4229	Digital Signal Processing Laboratory	1	X	X		Prerequisites: EE 3020. Co-requisite: EE 4220
EE	431	Electric Power Distribution	4	X		X		EE	4320	Electric Power Distribution	3	X	X		Co-requisite: EE 4300
EE	432	Power Transmission Lines	4	X	X			EE	4300	Introduction to Power Systems Engineering	3	X	X		Prerequisite(s): EE 3300
EE	433	Electric Power System Analysis	4		X	X		EE	4310	Power Systems Analysis	3	X	X		Prerequisite: EE 4300
EE	434	Electromagnetic Energy Conversion	4		X			EE	4340	Electromagnetic Energy Conversion	3		X		Prerequisite: EE 3300
EE	436	Analog Integrated Circuits	4	X				EE	4710	Analog Integrated Circuits	3	X			Prerequisite: EE 3700
EE	437	Electric and Magnetic Fields	4			X		EE	3050	Electric and Magnetic Fields	3	X			Prerq.: EE2040
EE	439	Digital Integrated Circuits	4			X		EE	4720	CMOS VLSI Design	3	X			Prerequisite: EE 3720
EE	440	Data Communications and Networking	4			X		EE	4400	Data Communications and Networking	3	X	X		Prerequisite: EE 3200
EE	442	Multimedia Networking	4	X				EE	4420	Multimedia Networking	3		X		Prerequisites: EE 4400, Knowledge of MATLAB
EE	443	Programmable Logic Lab	1					**No longer in the program**							
EE	445	Microprocessor Interface Design	4			X		**No longer in the program**							
EE	446	Embedded Architectures	4	X				EE	4450	Embedded Architectures	3	X			Prerequisites: EE 3450
EE	447	backend Compiler Technology	4					**No longer in the program**							
EE	448	HDL Design and Simulation Lab	1		X	X		EE	4480	Advanced Digital Design	3		X		Prerequisite or Co-requisite: EE 4440
EE	449	Computer Organization	4	X	X	X		EE	4440	Computer Organization	3	X	X		Prerequisite: EE 3450

Dept	No.	Title	Cr					Dept	No.	Title	Cr				Prerequisites
EE	454	Special Topic in EE	1-4		X			EE	4540	Special Topics in EE	1-3	X	X		Prerequisites: Senior or graduate standing in Electrical Engineering; enrollment subject to approval of instructor in charge. Permission needed by the department
EE	460	Control Systems Theory II	4			X		EE	4600	Control Systems II	3	X			Prerequisite: EE 3600
EE	461	Discrete-Time Control Systems	4		X			EE	4610	Digital Control Systems	3		X		Prerequisites: EE 3020
EE	462	State Space Control Systems	4	X				EE	4620	Modern Control Systems	3	X			Prerequisites: EE 3020
EE	468	Control Systems Laboratory	1			X	X	EE	4689	Control Systems Laboratory	1	X	X		Co-requisites: EE 3600
EE	472	Optoelectronics	4		X			EE	4730	Optoelectronics	3		X		Prerequisite: EE 3700
EE	483	Power Electronics	4	X				EE	4330	Power Electronics	3	X			Prerequisite: EE 3700
EE	485	Introduction to Biomedical Devices	4	X				EE	4810	Biomedical Devices	3	X			Prerequisites: EE 2040
EE	486	Biomedical Signal Processing	4		X			EE	4820	Biomedical Signal Processing	3		X		Prerequisites: EE 3020
EE	499	Undergraduate Directed Study	1	X	X	X		EE	4990	Undergraduate Directed Study	1 to 3	X	X		Prerequisite: Department's Permission
EE	513	System Analysis and Design	4	X				EE	5130	System Analysis and Design	3	X			Prerequisite: EE 4130
EE	514	Systems Risk Analysis	4		X			EE	5140	Systems Risk Analysis	3	X			Prerequisite: EE 4130
EE	515	Systems Performance Analysis	4			X		EE	5150	Systems Performance Analysis	3		X		Prerequisite: EE 4130
EE	516	Systems Architecture	4			X		EE	5160	Systems Architecture	3		X		Prerequisite: EE 4130
EE	520	Advanced Digital Communications I	4	X				EE	5200	Advanced Digital Communications I	3	X			Prerequisite: EE 3040, EE 4200
EE	521	Advanced Digital Communications II	4		X			EE	5210	Advanced Digital Communications II	3		X		Prerequisite: EE 5200
EE	522	Principles of Signal Compression	4			X		EE	5220	Principles of Signal Compression	3	X			Prerequisite: EE 3040, EE 4200
EE	523	Wireless Communications	4			X		EE	5230	Wireless Communications	3		X		Prerequisite: EE 5200, Corequisite: EE 5210
EE	524	Simulation of Communication Systems	4				X	EE	5240	Computer Aided Design of Communication Systems	3		X		Prerequisite: EE 5200, EE 5210
EE	525	Optical Communications	4				X	EE	5250	Optical Communications	3	X			Prerequisite: EE 5200, EE 5210
EE	533	Computer Method in Power Systems	4	X				EE	5330	Computer Method in Power Systems	3	X			Prerequisite: EE 3020, EE 4310
EE	534	Power System Stability	4	X				EE	5340	Power System Stability	3	X			Prerequisite: EE 3600, Corequisite: EE 5330
EE	535	Power System Protective Relaying	4			X		EE	5350	Power System Protection	3		X		Prerequisite: EE 4310
EE	537	Faulted Power Systems	4			X		EE	5370	Faulted Power Systems	3		X		Prerequisite: EE 4310
EE	544	Computer Networks and Internets	4	X				EE	5400	Advanced Computer Networks	3	X			Prerequisite: EE 4400
EE	545	Mobile Ad Hoc Networks	4		X			EE	5410	Mobile Ad Hoc Networks	3		X		Prerequisite: EE 4400
EE	547A	Computer System Architecture I	4		X			EE	5440	Computer System Architecture	3		X		Prerequisite: EE 4440

Subj	No.	Title	Cr					Subj	No.	Title	Cr				Notes
EE	547B	Computer System Architecture II	4			X				**No longer in program**					
EE	548	High Performance Computing	4							**No longer in program**					
EE	554	Special Topics In EE	1-4	X	X	X	X	EE	5540	Special Topics in EE	3	X	X		Prerequisite: Graduate Standing in EE
EE	560	Linear Systems Analysis	4		X			EE	5600	Linear Systems Analysis	3		X		Prerequisite: EE 4620
EE	561	Stochastic Systems and Estimation	4	X				EE	5610	Stochastic Systems and Estimation	3	X			Prerequisite: EE 3040, EE 3600
EE	562	Advanced Digital Control Systems	4		X					**No longer in program**					
EE	563	Optimal Control Theory	4		X			EE	5630	Optimal Control Theory	3		X		Prerequisite: EE 4620
EE	585	Neural Computation	4		X			EE	5820	Neural Computation	3		X		Prerequisite: EE 3040, EE 4820
EE	596	Comprehensive Exam	0	X	X	X		EE	5960	Comprehensive Exam	0	X	X		Prerequisite: Permission from Dept
EE	597	Graduate Research	1-5	X	X	X		EE	5970	Graduate Research	1-3	X	X		Prerequisite: Permission from Dept
EE	598	Graduate Directed Study	1-4	X	X	X		EE	5980	Graduate Directed Study	1-3	X	X		Prerequisite: Permission from Dept
EE	599	Thesis	1-4	X	X	X		EE	5990	Thesis	1-3	X	X		Prerequisite: Permission from Dept
EE	900	Graduate Studies	0	X	X	X				**No longer in program**					
		New Course						EE	5450	Advanced Topics in Embedded Systems	3		X		Prerequisite: EE 4450
		New Course						EE	5480	Advanced Topics in Computer Architectures	3	X			Prerequisite: EE 5440
		New Course						EE	5640	Nonlinear Control Systems	3	X			Prerequisite: EE 4620 or EE 5600
		New Course						EE	5360	Renewable Energy	3			X	Prerequisite: EE 4310
		New Course						EE	5320	Vehicle Electrification	3		X		Prereq: EE 3300, EE 3700
		New Course						EE	4630	Machine Learning: Principles & Applications	3		X		Prereq: EE 3020, EE 3040