Quarter to Semester Course Conversion Table Template

BS in Electrical Engineering (3-8-18)

Quarter Course Subject	Cat. No.	Title	Units	Fall	Winter	Spring	Summer	Semester Subject	Cat. No.	Title	Units	Fall	Spring	Summer	Pre-Requisites & Co-Requisites
ENGR	150	Introduction to Engineering	1	X	X	X		ENGR	1500	Introduction to Engineering and Technology	3	X	X		None
EE	204	Circuit Analysis	4	X		X		EE	2040	Circuit Analysis I	3	X	X		Co-requisite. Math 2120, Phys 2200
CE/ME	208	Statics and Strength of Material	4	X	X	X				No longer in the program					
EE	210	Electrical Measurements Laboratory	1	X	X	X		EE	2049	Electrical Measurements and Circuits Laboratory	1	X	X		Prerequisite: EE 2040
EE	211	Electric Circuits Laboratory	1	X	X	X									
CS	242	"C" Programming	4	X	X	X		EE	2450	Embedded System Programming I	3	X	X		Prerq.: ENGR 1500
EE	244	Digital Engineering	4	X	X	X		EE	2440	Digital Engineering	3	X	X		None
EE	246	Digital Logic Laboratory	1	X	X	X		EE	2449	Digital Logic Laboratory	1	X	X		Coreq.: EE 2440
EE	290	EE Computing	4	X		X				No longer in the program					
ENGR	300	Economics for engineers	1	X	X	X		EE/ME/CE	3000	Economics for Engineers	3	X	X		Prerq.: Junior or Senior Standing
ENGR	301	Ethics & Professionalism	4	X	X	X		EE/ME/CE	3010	Ethics and Professionalism in Engineering	3	X	X		Prerq.: Junior or Senior Standing
EE	304	Electric Machines	4	X	X	X		EE	3300	Electric Machines	3	X	X		Prerq.: EE2040
EE	314	Electromagnetic Energy Conversion laboratory	1	X	X			EE	3309	Electromagnetic Energy Conversion Laboratory	1		X		Prerequisite: EE 3300, EE2049
EE	317	Electronics Laboratory I	4		X	X				No longer in the program					
EE	320	Analog Communication Systems	4		X			EE	3200	Analog Communication Systems	3		X		Prerq.: EE3020
EE	321	Communications Laboratory	1		X	X		EE	3209	Communications Laboratory	1	X	X		Prerequisite: EE 3200
EE	330	Writing for Electrical Engineers	1	X	X	X				No longer in the program					
EE	332	Systems Analysis	4	X		X		EE	3020	Signals and Systems	3	X			Prerq.: EE2040, Co-req.: Math 2150
EE	334	Probability and Random Processes	4	X				EE	3040	Probability, Random Variable, and Random Processes	3	X			Co-req.: Math 2130
EE	336	Electronics	4		X			EE	3700	Electronics I	3		X		Prerq.: EE2040
EE	340	Electronics Laboratory II	1		X	X		EE	3709	Electronics Laboratory	1	X	X		Co-requisite: EE 3710
CS	342	Object Oriented Prog Using C++	4	X	X	X				No longer in the program					
EE	345	Microcomputer Programming	4	X	X	X		EE	3450	Emebedded Systems Programming II	3	X	X		Prerq.: EE2450, EE2449
EE	347	Computer Logic Design	4		X					No longer in the program					
EE	360	Control Systems Theory I	4		X			EE	3600	Control Systems I	3		X		Prerq.: EE3020
EE	371	Analog Electronics	4			X		EE	3710	Electronics II	3	X			Prerequisite: EE 3700
EE	372	Digital Electronics	4		X			EE	3720	Digital Electronics	3		X		Prerequisites: EE 2440, 3700
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

Dept	No.	Title	Cr					Dept	No.	Title	Cr					Prerequisites
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: EE4400, 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
EE	454	Special Topic in EE	4		X			EE	4540	Special Topics in EE	1 to 3	X	X			Prerequisites: Senior standing 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: EE2040
EE	486	Biomedical Signal Processing	4		X			EE	4820	Biomedical Signal Processing	3		X			Prerequisites: EE 3020
EE	496A	Senior Design I	3	X				EE	4961	Senior Design I	3	X				Prerq.: Completion of blocks A and B4, an additional course from block B, and at least one course each from blocks C and D; EE3020, EE3450; EE3000; EE3010; Co-requisite: EE 3810.
EE	496B	Senior Design II	3		X			EE	4962	Senior Design II	3		X			Prerq.: EE4961 with grade of C or higher
EE	496C	Senior Design III	3			X										
EE	498	Cooperative Education	1				X	EE	4009	Professional Engineering Practice	1				X	Prerequisites: Permission is granted by department under the following conditions: acceptance by the corresponding worksite; junior, senior, or graduate standing; minimum of 2.5 GPA for undergraduates and 3.0 for graduates.
EE	499	Undergraduate Directed Study	1	X	X	X		EE	4990	Undergraduate Directed Study	1 to 3	X	X			Prerequisite: Department's Permission
								EE	3001	Numerical Analysis and Modeling Using MATLAB	1	X	X			Prerq.: EE2040
								New Course								
								New Course	2801	Introduction to Biomedical Engineering	3	X				Prereq or Co-req: BIOL 2800

									New Course	3810	Sensors, Data Acquisition, and Instrumentation with application to Biomedical Engineering	3		X	X		Prereq.: EE2049
									New Course	3030	Circuit Analysis II	3			X		Prereq: EE 3020
									New Course	4630	Machine Learning: Principles and Applications	3			X		Prereq: EE 3020, EE 3040