

EE (Technical) Electives by Semesters Offered - Subject to change

Oct. 2020

Check online schedule & catalog for current course information

Semester	Course ID	Title	Pre-requisites / Co-requisites(C)		
Summer	varies	Check the Summer Schedule of Classes			
Fall	EE3190	Optical Sensing & Imaging	MA3520 or MA3521 or MA3530 or MA3560		
	EE3373	Intro. Programmable Controllers	EE2112		
	EE4221	Power System Analysis I	EE3120 and EE2112		
	EE4227	Power Electronics	EE3120 and EE3131		
	EE4228	Power Electronics Lab	(C)EE4227		
	EE4231	Physical Electronics	EE3131	Fall or Spg	
	EE4240	Intro to MEMS (alternating falls-odd)	Not FR,SO,JR		
	EE4252	Digital Signal Processing & It's Applications	EE3160		
	EE4259	Digital Signal Processing & It's Applications Lab			
	EE4271	VLSI Design	EE3131 and EE2174		
	EE4272/CS4461	Computer Networks	CS3411		
	EE4295	Intro to Propulsion Syst. for Hybrid Elec Vehicles	MEEM2200 or ENG3200		
	EE4296	Intro Propulsion Sys. for Hybrid Elec veh Lab	Not FR,SO,JR		
	EE4411	Engineering Electromagnetics	EE3140	On Dmd	
	EE4490	Laser Systems & Applications (if offered)	EE3140		
	EE4777	Dist. Additive Mfg. Using Open-Source 3D Printing	JR; SR; COE		
Spring	EE2180	Introduction to Robotics	MA1160 or MA1161		
	EE2190	Introduction to Photonics (begins Spring 2019)	PH2200(C), MA3520/21		
	EE2230/2231	Printed Circuit Board Seminar/Fabrication	Instructor Permission		
	EE3290	Photonic Materials , Devices & Applications	EE3090 or EE3140 or PH2400 or EE2190		
	EE4219	Intro to Electric Machinery and Drives	EE3120 and (EE3010 or EE2112)		
	EE4220	Intro to Electric Machinery and Drives Lab	EE4219(C) co-req		
	EE4222	Power Systems Analysis 2	EE4221		
	EE4226	Power Engineering Lab (Also offered 1st week May FT)	EE4221	EE4222(Co-req)	
	EE4232	Electronic Applications	EE3131	Spg or Fall	
	EE4253	Real-time Signal Processing	EE4252		
	EE4262	Digital & Non-linear Control	EE3261		
	EE4272/CS4461	Computer Networks	CS3411		
	EE4373	Advanced Programmable Contollers	EE3373		
	EE4490	Laser Systems & Applications (if offered)	EE3140	offered fall 2019	
	EE4723	Network Security	EE4272 or CS4461		
	EE4800	Electronic Materials & Devices (special topic)	EE3131		
	EE4737	Embedded Syst. Interfacing (Not Spg 2021)	(CS1142 or CS1111) and (EE3173 or EE3171)		
Alternating	EE5223	Power System Protection	EE4221	EE4222(Co-req)	Odd Springs
Springs	EE5224	Power System Protection Lab	EE5223(Co-req)		Odd Springs
	EE5250	Distribution Engineering	EE4221	Obtain level-restriction waiver	Even Springs
Varies	EE4800; EE5900	Special Topics (<i>check schedule of classes</i>)	Instr. Permission; Level waiver		
GRAD level	<i>Seek level restriction waiver - instructor permission required.</i>				