EE COURSE OFFERINGS 2025 - 2026 ACADEMIC YEAR

Required Courses for EE's in Red Required Courses for CPE's in Blue Service Courses in Green

EE students are expected to take the course in the quarter marked with X. A reduced number of sections of courses may be offered in quarters marked with an asterisk (*) depending upon demand and resources available.

Course #	Course Title	Type	Units	Fall	Winter	Spring	Summer	
	EQUIRED COURSES:							
Freshman Cor								
EE 111	Intro to Electrical Eng	Lec	1	Х				
EE 151	Intro to Electrical Eng Lab	Lab	1	Х				
EE 113	Electric Circuit Analysis I	Lec	3	*				
EE 143	Elec Manu & Circ Analysis Lab	Lab	1	*				
CPE 133	Digital Design	Lec/Lab	4	Х	*	Х		
Sophomore Core Courses							•	
EE 211	Electric Circuit Analysis II	Lec	3	Х	*			
EE 241	Electric Circuit An Lab II	Lab	1	Х	*			
EE 212	Electric Circuit Analysis III	Lec	3	Х	Χ	*		
EE 242	Electric Circuit An Lab III	Lab	1	Х	Х	*		
EE 228	Continuous-Time Signals & Systems	Lec	4	Х	*	Х		
CPE 233	Comp Des & Asm Lang Prog	Lec/Lab	4		Х	*		
EE 255	Energy Conversion Electromagnetics	Lec	3	*	*	Х		
EE 295	Energy Conversion EM Lab	Lab	1	*	*	Х		
Junior Core Co	ourses	•				•	•	
EE 302	Classical Control Systems	Lec	3		Χ	*		
EE 342	Classical Control Systems Lab	Lab	1		Χ	*		
EE 306	Semiconductor Device Electronics	Lec	3	X	*			
EE 346	Semiconductor Dev Electr Lab	Lab	1	Х	*			
EE 307	Digital Electronics and Int Circuits	Lec	3		Χ	*		
EE 347	Digital Electronics & Int Circ Lab	Lab	1		Χ	*		
EE 308	Analog Electronics & Int Circuits	Lec	3	*		Х		
EE 348	Analog Electronics & Int Circ Lab	Lab	1	*		Х		
EE 314	Intro to Communication Systems	Lec	3	Not offered in 25-26 academic year				
EE 328 ¹	Discrete Time Signals & Systems	Lec	3	X	*			
EE 368 ¹	Signals and Systems Lab	Lab	1	Х	*			
EE 329	Prog Logic & μP-Based Sys Design	Lec/Lab	4	*		Х		
EE 336	Comp Hardware Arch and Design	Lec/Lab	4	Not offered in 25-26 academic year				
EE 335	EM Fields & Transmission	Lec	4	*				
EE 375	EM Fields & Transmission Lab	Lab	1	*				
Senior Core Co	ourses	l .				1	-1	
EE 402	Electromagnetic Waves	Lec	4	X	*			
EE 409	Electronic Design	Lec	3	X	*			
EE 449	Electronic Design Lab	Lab	1	Х	*			
EE 460	Senior Project Preparation	Lec	2	Χ	*			
EE 461	Senior Project Qtr. 1	Superv	3		Х			
EE 462	Senior Project Qtr. 2	Superv	2	Χ		Х		
EE 463	Senior Project Design Lab I	Lab	3		Х	Х		
EE 464	Senior Project Design Lab 2	Lab	2			Х	Х	
SUPPORT ELE	CTIVES							
EE 261	Intro C Progr. with a HW Emphasis	Lab	1	Not offered in 25-26 academic year				
EE 262	Intro C++ Progr. with a HW Emphasis	Lab	1	Not off	ered in 25-2	26 academi	c year	

EE COURSE OFFERINGS 2025 - 2026 ACADEMIC YEAR

Cauraa #	Course Title		Linita	Fall	Mintor	Corina	Currence		
Course #	Course Title	Type	Units	Fall	Winter	Spring	Summer		
TECHNICAL EL	ECTIVES 2								
Electronics	T	т.				1	1		
EE 412	Advanced Analog Circuits	Lec	3		X				
EE 452	Advanced Analog Circuits Lab	Lab	1	N	X				
EE 413	Advanced Electronic Design	Lec/Lab	4	Not off	ered in 25-2	26 academi	c year		
EE 422	Polymer Electronics Laboratory	Lab	1			X			
EE 425	Analog Filter Design	Lec	3			X			
EE 455	Analog Filter Design Lab	Lab	1			Х			
EE 431	CAD Design of VLSI Devices	Lec/Lab	4	Х					
EE 423	Micro/Nano Fabrication	Lec	3		Х				
EE 473	Micro/Nano Fabrication Lab	Lab	1		Х				
	Microwave/Photonics								
EE 403	Fiber Optic Communication	Lec		3 Not offered in 25-26 academic year					
EE 443	Fiber Optic Communication Lab	Lab		1 Not offered in 25-26 academic year					
EE 405	High-frequency Amplifier Design	Lec	3			26 academi			
EE 445	High-freq. Amplifier Design Lab	Lab	1	Not off	ered in 25-2	26 academi	year		
EE 418	Photonic Engineering	Lec	3			Х			
EE 458	Photonic Engineering Lab	Lab	1			X			
EE 440	Wireless Communications	Lec	3			26 academi	•		
EE 480	Wireless Communications Lab	Lab	1	Not off	ered in 25-2	26 academi	c year		
Power	<u>, </u>						_		
EE 406	Power Systems Analysis I	Lec	4	*					
EE 407	Power Systems Analysis II	Lec	4		*				
EE 410	Power Electronics I	Lec/Lab	4	*					
EE 411	Power Electronics II	Lec/Lab	4		*				
EE 417	Alternating Current Machines	Lec/Lab	4	*					
EE 420	Sustainable Elec Energy Conversion	Lec/Lab	4		*				
EE 433 ³	Introduction to Magnetic Design	Lec/Lab	4	Not off	Not offered in 25-26 academic year				
EE 434	Alternative Energy Vehicles	Lec/Lab	4	Not off	Not offered in 25-26 academic year				
EE 435	Industrial Power Control and Automation	Lab	1			Х			
EE 444	Power Systems Laboratory	Lab	1			Х			
EE 450	Solar Photovoltaic System Engineering	Lec/Lab	4	Not off	ered in 25-2	26 academi	year		
Systems (Com	munications, Signal Processing	g, Contr	ols)						
EE 415 ⁴	Communication Systems Design	Lec	3	Х					
EE 416 ⁴	Digital Communication Systems	Lec	3	Not off	ered in 25-2	26 academi	: vear		
EE 419	Digital Signal Processing	Lec	3	1101 011	X		Joan		
EE 459	Digital Signal Processing Lab	Lab	1		X				
EE 424	Intro to Remote Sensing	Lec/Lab	4		X				
EE 428	Computer Vision	Lec/Lab	4		X				
EE 432	Digital Control Systems	Lec	3	Χ					
EE 472	Digital Control Systems Lab	Lab	1	X					
EE 456	Communication Systems Lab	Lab	1		Not offered in 25-26 academic year				
EE 475	Comm Networks and Systems Lab	Lab	1	X	5.54 111 20-2				
Special Topics		Lab			<u> </u>	L	1		
EE 271	Selected Laboratory	Lab	1	Not off	ered in 25-	26 academi	c vear		
EE 470	Selected Advanced Topics	Lec	1-4	X	5.64 111 20-2	X	Jour		
EE 470	Selected Advanced Lab		1-4	X		X	-		
LE 41 I	Ociculeu Auvailueu Lab	Lab	1-4	^		_ ^			

EE COURSE OFFERINGS 2025 - 2026 ACADEMIC YEAR

Course #	Course Title	Type	Units	Fall	Winter	Spring	Summer	
GRADUATE CO		Туре	Office	I dii	Wille	Opining	Odiffiller	
EE 563	Graduate Seminar	Sem	1	Х	Х	Х		
EE 599	Design Project (Thesis)	Superv	1-9	X	X	X		
Electronics	Docigit Frageat (Thiosia)	Сарол		,				
EE 524	Solid State Electronics	Sem	3	Not offered in 25-26 academic year				
EE 531	Advanced VLSI Design	Lec/Lab	4		X			
EE 532	VLSI Circuit Testing	Lab	1	Not off	ered in 25-2	26 academic	vear	
EE 544	Solid-state Electronics Lab	Lab	1	Not offered in 25-26 academic year Not offered in 25-26 academic year				
Microwave / Photonics								
EE 502	Microwave Engineering	Sem	4	Not off	ered in 25-2	26 academic	c year	
EE 529	Adv Topics in Microwave Device Elec	Sem	3			26 academic		
EE 530	Fourier Optics	Sem	4			26 academic	•	
EE 533	Antennas	Sem	4	Not offered in 25-26 academic year				
EE 534	Advanced Photonic Systems	Lec/Lab	4			26 academic		
EE 541	Microwave Engineering Lab	Lab	2		Χ			
Power	5 6		l					
EE 511	Electric Machines Theory	Sem	4		Х			
EE 518	Power System Protection	Lec/Lab	4			Х		
EE 519	Adv Analysis of Power Systems	Sem	4	Not off	ered in 25-2	26 academic	year	
EE 520	Solar-Photovoltaic Systems Design	Sem	4			Х		
EE 527 ³	Adv Topics in Power Electronics	Sem	4			Х		
	munications, Signal/Image Pro		Contro	ols)		ļ	ļ	
EE 504	Software Defined Radio	Sem/Lab	4	/	Х	Х		
EE 509	Computational Intelligence	Sem	4			Х		
EE 513	Control Systems Theory	Sem	4		Х			
EE 514	Adv Topics in Automatic Control	Sem	4			Х		
EE 515	Discrete Time Filters	Sem	4	Х				
EE 516	Pattern Recognition	Sem/Lab	4			Х		
EE 525	Stochastic Processes for Eng.	Sem	4	Х				
EE 526	Digital Communications	Sem	4		Х			
EE 528	Digital Image Processing	Sem	4	Х				
SERVICE COU	RSES						•	
EE 115	Electrical and Electronic Circuits I	Lec	3	Х	*			
EE 145	Electrical and Electronic Circuits I Lab	Lab	1	Х	*			
EE 201	Electric Circuit Theory	Lec	3	Х	Х	Х	Х	
EE 251	Electric Circuits Lab	Lab	1	Х	Х	Х	Х	
EE 215	Electrical and Electronic Circuits II	Lec	3	Х	Х	*		
EE 245	Electrical and Electronic Circuits II Lab	Lab	1	Χ	Х	*		
EE 315	Electrical and Electronic Circuits III	Lec/Lab	4		Х	Х		
EE 321	Electronics	Lec	3	Χ	Х	Х	Х	
EE 361	Electronics Lab	Lab	1	Χ	Χ	X	X	
EE 322	Microcontrollers for Everyone	Lec/Lab	4			*		
EE 327	Digital Signals & Systems	Lec	3	·	*			
EE 367	Digital Signals and Systems Lab	Lab	1		*			

Footnotes:

- ¹ EE 328 / EE 368 can be used for the CSC/EE/Math/Science elective for CPE students in earlier catalogs.
- EE 326 / EE 306 can be used for the Coc/EE/Math/Cocines closure in a Least Section of the Cocines closure in a Least Section of the Cocin