

Requirements: 2 Track Electives and 2-300+ Approved Electives

2-Track Electives: Choose 2 courses from one technical area.

2- Approved Electives: Choose any two additional courses from this list. (CPE 212 may also be used)

Courses offered based on historical data, does not guarantee future availability.

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Communications/Radar				
EE 414	3	Analog & Digital Filter Design	EE 315 and (EE 383 or CPE 381)	S
EE 421	3	Antenna Design & Analysis	EE 308	F
EE 424	3	Intro to Data Communication Networks	(EE 383 or CPE 381) and EE 385	F
EE 425	3	Fundamentals of Radar Systems	Advisor Approval	
EE 426	3	Communication Theory	EE 382 or CPE 381	S
EE 454	3	Optical Fiber Communications	EE 307 and CPE 381	S

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Electronics				
EE 414	3	Analog & Digital Filter Design	EE 315 and EE 383	S
EE 416	3	Electronics II	EE 315	SM
EE 417	3	Fundamentals of Photovoltaics	EE 310	S
EE 418	3	Nonlinear Dynamics and Chaos	Advisor Approval	
EE 436	3	Digital Electronics	EE 202 and EE 315	F
EE 451	3	Optoelectronics	EE 307 and EE 315	F

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Controls and Robotics				
EE 486	3	Introduction to Modern Control Systems	EE 386	F
EE 410	3	ST: Fundamentals of Robotics	Advisor Approval	
EE 410	3	ST: Introduction to Sensors & Actuators	Advisor Approval	
EE 418	3	Nonlinear Dynamics and Chaos	Advisor Approval	

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Optics				
EE 451	3	Optoelectronics	EE 307 and EE 315	F
EE 453	3	Laser Systems	EE 307	F
EE 454	3	Optical Fiber Communications	EE 307 and CPE 381	S

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Digital Hardware Design				
CPE 322/324	4	Digital Hardware Design Fundamentals	CPE 221; Pre w/ Con EE 315	S
CPE 427	3	VLSI Design I	EE 202, EE 315; Coreq CPE 427L	F
CPE 431	3	Introduction to Computer Architecture	CPE 322, CPE 323	F

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Energy and Power Systems				
EE 410	3	ST: Power Systems Insulators	Advisor Approval	
EE 411	3	Electric Power Systems	EE 382 or CPE 381	S
EE 417	3	Fundamentals of Photovoltaics	EE 310	S

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Networks/Cybersecurity				
CPE 348	3	Introduction to Computer Networks	CPE 221	FS
CPE 449	3	Introduction to Cybersecurity Engineering	CPE 348	F

Course Number	Cr Hrs	Course Title	Planned term
Selected Electrical Engineering Electives			
		Track 1:	
		Track 2:	
		Elective 1:	
		Elective 2:	

Notes:
Highlighted courses have previously been listed as EE 410 Special Topics (ST)
No ET (Engineering Technology) courses may be used to satisfy requirements

