

Electrical and Computer Engineering (ECE) Course Schedule

Updated 1/20/24

	COURSE	TITLE	FALL	SPRING
Core Courses <i>Core courses are taught every year on this schedule.</i>	ECE 2112	Circuits	X	X
	ECE 2112L	Circuits Laboratory	X	X
	ECE 2123	Digital Systems	X	X
	ECE 2123L	Digital Systems Laboratory	X	X
	ECE 2214	Analog Circuits and Systems	X	X
	ECE 3235	Electronics I	X	X
	ECE 3235L	Electronics I Laboratory	X	X
	ECE 4950	Program & Project Management	X	
	ECE 4951	Elec. and Comp. Engineering Design		X
	ECE 4959	Senior Design Seminar	X	
	Elective Courses <i>This schedule is <u>not</u> guaranteed, but is subject to instructor availability and minimum enrollment requirements</i> <i>Please check YES during pre-registration for other ECE special topics courses that may be offered.</i>	ECE 2218	Microcontrollers	X
ECE 2218L		Microcontrollers Laboratory	X	
ECE 2281		Computer Architecture	X	X
ECE 2281L		Computer Architecture Laboratory	X	X
ECE 3233		Electromagnetics	X	
ECE 4239		Cyber-Physical Systems		X
ECE 4252		Signal Processing & Communications		even years
ECE 4257		Control Systems I	X	
ECE 4267		Power System Analysis		odd years
ECE 4268		Distributed Energy Systems	even years	
ECE 4275		Microelectronic Systems		X
ECE 4283		Semiconductor Devices	X	
ECE 4284		IC Technology and Fabrication		X
ECE 4286		Audio Engineering	X	
ECE 4287		Engineering Reliability		even years
ECE 4288		Optoelectronics		odd years
ECE 4289		Spacecraft Systems		odd years
ECE 4334		RF & Microwave Design		even years
ECE 4335		Fundamentals of Quantum Engineering		X
ECE 4353		Image Processing	X	
ECE 4354		Computer Vision		X
ECE 4356		Digital Signal Processing		X
ECE 4358		Control Systems II		X
ECE 4363		Applied Statistical Machine Learning	odd years	
ECE 4370		Engineering for Surgery	X	
ECE 4371		Mobile & Wireless Networks	X	
ECE 4375		Embedded Systems		X
ECE 4375L		Embedded Systems Laboratory		X
ECE 4377		FPGA Design		even years
ECE 4380		Electronics II		X
ECE 4383		Computer Networks	X	X
ECE 4385		VLSI Design	X	

	COURSE	TITLE	FALL	SPRING
Graduate Courses Course numbers in <i>bold italics</i> indicate <u>gateway</u> courses. <i>This schedule is <u>not</u> guaranteed, but is subject to instructor availability and minimum enrollment requirements.</i>	<i>ECE 6301</i>	Solid-State Materials	X	
	ECE 6302	Electric and Magnetic Properties of Solids		odd years
	ECE 6303	Nanophotonic Devices		even years
	ECE 6304	Radiation Effects and Reliability of Microelectronics	odd years	
	<i>ECE 6306</i>	Solid-State Effects and Devices I		X
	ECE 6307	Solid-State Effects and Devices II	even years	
	<i>ECE 6311</i>	Systems Theory		X
	ECE 6321	Cyber-Physical Systems	See note (1) below.	
	<i>ECE 6341</i>	Advanced Analog Electronics	even years	
	<i>ECE 6342</i>	Advanced Digital Electronics	odd years	
	<i>ECE 6343</i>	Digital Systems Architecture		X
	ECE 6354	Advanced Real-Time Systems	See note (2) below.	
	ECE 6356	Intelligent Systems and Robotics	even years	
	<i>ECE 6357</i>	Advanced Image Processing	X	
	ECE 6358	Quantitative Medical Image Analysis		odd years See note (3) below.
	<i>ECE 6361</i>	Random Processes	X	
	ECE 6362	Detection and Estimation Theory		odd years

(1) Students are advised to enroll in the CS course in cyber-physical systems instead of ECE 6321.

(2) ECE 6354 is unavailable until further notice.

(3) ECE 6358 is unavailable until further notice.

Please check YES during pre-registration for other ECE special topics courses that may be offered.