

Electrical and Computer Engineering

Undergraduate Course Offering Plan 2020-2022

Courses marked with "X" will be offered in the corresponding terms, barring unforeseen circumstances.

Course No.	Course Name	Spring 2020	Sum2020	Fall 2020	Spring 2021	Sum2021	Fall 2021	Spring 2022
ECGR2103	Computer Utilization in C++	X	X	X	X	X	X	X
ECGR2104	Computer Engineering Programming	X	X		X	X		X
ECGR2111	Network Theory I	X	X	X	X	X	X	X
ECGR2112	Network Theory II	X	X	X	X	X	X	X
ECGR2155	Instrumentation and Networks Lab	X		X	X		X	X
ECGR2156	Logic and Networks Lab	X		X	X		X	X
ECGR2161	Basic Electrical Engineering I	X	X	X	X	X	X	X
ECGR2181	Digital Logic	X	X	X	X	X	X	X
ECGR2254	Analytical Foundations of ECE	X	X	X	X	X	X	X
ECGR3090	Intro to Machine Learning			X			X	
ECGR3090	Special Topics: Renewable Energy	X			X			X
ECGR3101	Embedded Systems	X	X		X	X		X
ECGR3111	Signals and Systems	X	X	X	X	X	X	X
ECGR3112	Systems II	X		X	X		X	X
ECGR3121	Intro Electromagnetic Fields	X		X	X		X	
ECGR3122	Electromagnetic Waves	X	X		X	X		X
ECGR3123	Data Communications I	X	X		X	X		X
ECGR3131	Fund Electronics & Semiconduct	X	X	X	X	X	X	X
ECGR3132	Electronics	X	X		X	X		X
ECGR3133	Solid State Microelectronics I			X			X	
ECGR3142	Electromagnetic Devices	X	X		X	X		X
ECGR3155	Systems & Electronics Lab	X	X	X	X	X	X	X
ECGR3156	Electromag & Elec Devices Lab	X	X	X	X	X	X	X
ECGR3157	Elec Engineering Design II	X	X	X	X	X	X	X
ECGR3159	Professional Practice	X		X	X		X	X
ECGR3180	Data Structures and Algorithms in C++	X	X	X		X	X	
ECGR3183	Comp Org	X		X	X		X	X
ECGR3695	ECGR Educ Coop Seminar	X	X	X	X	X	X	X
ECGR4090	Machine Learning for IoT				X			X
ECGR4090	Real Time AI				X			X
ECGR4090/5090	Cloud Native Application Architecture (New)				X			X
ECGR4090/5090	Special Topics: Digital Controls	X			X			X

ECGR4090/5090	Special Topics: Internet of Things			X			X	
ECGR4090/5090	Special Topics: Fund. Solid-state Electronic Devices			X			X	
ECGR4090/5090	Special Topics: Metamaterials & Metasurfaces	X						
ECGR4090/5090	Special Topics: Utility Applications of Power Electronics			X			X	
ECGR4100/5100	Research Tools & Tech in Comp Eng			X			X	
ECGR4101/5101	Advanced Embedded Systems			X			X	
ECGR4111/5411	Control Systems I			X			X	
ECGR4121/5121	Antennas			X			X	
ECGR4122/5190	Acoustics			X			X	
ECGR4123/5191	Analog & Digital Communications			X			X	
ECGR4124/5124	Digital Signal Processing	X		X	X		X	X
ECGR4125/5125	Found of Optical Engineering	X			X			X
ECGR4131/5431	Linear Integrated Electronics			X			X	
ECGR4132/5132	Analog Int Circuits Design	X			X			X
ECGR4134/5192	Solid State Microelectronic Devices II						X	
ECGR4141/5193	Power Systems I			X			X	
ECGR4142/5194	Power Systems II	X			X			X
ECGR4143/5195	Elec Machines	X			X			
ECGR4144/5144	Power Electronics I			X			X	
ECGR4146/5146	Intro to VHDL	X			X			X
ECGR4151	Solar Cell Fundamentals & Technology							X
ECGR4161/5196	Intro to Robotics	X	X		X	X		X
ECGR4171/5171	Intro to Energy Systems			X			X	
ECGR4172/5172	Special Topics: Energy Markets	X			X			X
ECGR4181/5181	Comp Arch			X			X	
ECGR4187/5187	Data Communications and Networking II			X			X	
ECGR4190/5142	Power Generation Operation and Control I	X			X			X
ECGR4261/5261	Microwave Circuit Design I			X				
ECGR4290/5090	Special Topics: Science and Technology of PV	X			X			X
ECGR4311	DAW	X		X			X	
ECGR4312	Electronic Music Synthesis I				X			X
ECGR4422/5122	Random Processes			X			X	
ECGR4433/5133	VLSI Systems Design	X		X	X		X	X
ENGR1202	Intro Engr Pract & Prin II	X	X	X	X	X	X	X
ENGR3295	Multidisciplinary Prof Dvlpmnt	X		X	X		X	X