

MINOR IN COMPUTER ENGINEERING

Requirements Effective Fall 2022

Code	Title	Credits
ECE 102	Digital Circuit Logic	4
ECE 251 or CS 270	Introduction to Microcontrollers and IoT Computer Organization	4
Choose a minimum of 15 credits from the following:		15
ECE 202 or ECE 204	Circuit Theory Applications Introduction to Electrical Engineering	
ECE 340	Electromagnetics for Computer Engineering	
ECE 445	Digital Logic Synthesis	
ECE 450	Digital System Design Laboratory	
ECE 451	Digital System Design	
ECE 452	Computer Organization and Architecture	
ECE 455	Introduction to Robot Programming/ Simulation	
ECE 495A	Independent Study ¹	
ECE 495B	Independent Study: Open Option Project ¹	
ECE 495C	Independent Study: Vertically Integrated Projects ¹	
ECE 519	Network Centric Systems	
ECE 528/CS 528	Embedded Systems and Machine Learning	
ECE 544	Silicon Photonics for Computing Systems	
ECE 554	Computer Architecture	
ECE 558	Manycore System Design Using Machine Learning	
ECE 561/CS 561	Hardware/Software Design of Embedded Systems	
ECE 571	VLSI System Design	
ECE 575	Experiments in VLSI System Design I	
Program Total Credits:		23

¹ A total 3 credits of Independent Study may apply toward total degree requirements. This includes credit awarded for ECE 495A, ECE 495B, ECE 495C combined.