MINOR IN COMPUTER ENGINEERING

Requirements
Effective Fall 2023

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Code	Title	Credits
ECE 102	Digital Circuit Logic	4
Select one course from the following:		4
ECE 251	Introduction to Microcontrollers and IoT	
CS 250	Computer Systems Foundations	
CS 270	Computer Organization	
Select a minimum of 15 credits from the following:		15
ECE 202	Circuit Theory Applications	
or ECE 204	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	

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.