NANOTECHNOLOGY MINOR

The emerging field of nanotechnology, which involves studying and manipulating matter on an ultra-small scale (a nanometer is one-billionth of a meter), is expected to have far-reaching consequences in engineering applications as diverse as sustainable energy and next-generation microprocessors and flash memories.

Requirements

A minor in nanotechnology requires the completion of at least 15 credits as follows:

Course	Title	Credits
Group 1		
ECE 4211/5211	Semiconductor Devices and Nanostructures	3
ECE 4243	Nanoscience and Nanotechnology I	3
ECE 4244	Nanotechnology II	3
Group 2		
Select two courses from the following list (at least six credits):		6
ECE 3223	Optical Engineering	
ECE 3243	Introduction to Nanotechnology	
ECE 4223	Nanophotonics	
ECE 4225	Fundamentals of Electron Device Design and Characterization	
ECE 4242	Micro/Opto-electronic Devices and Circuits Fabrication Laboratory	
ECE 4095	Special Topics in Electrical and Computer Engineering (or any engineering special topics course if related to nanoscience/ technology)	
ECE 4079	Independent Design Laboratory (or any engineering independent design laboratory course if related to nanoscience/ technology)	
ECE 4099	Independent Study in Electrical and Computer Engineering (or any engineering independent studies course if related to nanoscience/technology)	
ECE 4901 & ECE 4902	Electrical and Computer Engineering Design I and Electrical and Computer Engineering Design II (if the project is related to nanoscience/technology)	
ECE 5223	Nanophotonics	
ECE 5225	Electron Device Design and Characterization	
ECE 5242	Micro-Optoelectronic Devices and IC Fabrication	
Total Credits		**15**

The minor is offered by the College of Engineering. For information about the Nanotechnology minor, contact John Chandy at john.chandy@uconn.edu.