

Nanotechnology Minor

The emerging field of nanotechnology, which involves studying and controlling 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.

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

GROUP I: Required courses (9 credits)

1. ECE 4211 (245): Micro-Opto-electronic Devices
2. ENGR/ECE 4243 (250): Nanoscience & Nanotechnology
3. ECE/ENGR 4244 (251): Nanotechnology II (Lab)

GROUP II: (should equal at least 6 credits)

4. ECE 3223 (223): Optical Engineering
5. ECE 4242 (268): Micro/Opto-electronic Devices and Circuits Fabrication Laboratory.
6. ECE 4095 (295): Special Topics in Electrical & Computer Engineering or any engineering program's special topics course [if related to nanoscience/technology]
7. ECE 4099 (299): Independent Study in Electrical and Computer Engineering or any engineering program's independent studies course [if related to nanoscience/technology]
8. ECE 4901 (290) and ECE 4902 (291) Senior Design I & II [if the project is related to nanoscience/technology]

The minor is offered by the School of Engineering. For the nanotechnology minor, please contact Dr. Rajeev Bansal at Rajeev@enr.uconn.edu.