



ONDESA

CONVERGENCE OF NANO-ENGINEERED DEVICES FOR ENVIRONMENTAL AND SUSTAINABLE APPLICATIONS

NANO FABRICATION

This course will provide a survey of top-down and bottom-up techniques to fabricate nanoscale structures and devices, including but not limited to optical and electron lithography, nano imprinting, physical and chemical vapor deposition, and self-assembly. State-of-the-art methods for the characterization of fabricated structures and devices will also be introduced, including electron and scanning probe microscopy approaches. Based on class size and instrument availability, several lab demonstrations will be integrated into the course. We welcome students interested in nano-fabrication from graduate programs including Chemistry and Chemical Biology, Environmental Systems, Materials and Biomaterials Science and Engineering, Mechanical Engineering, Physics, and Quantitative and Systems Biology.

FALL SEMESTER 2022

Tuesdays and Thursdays from 12:00-1:15

PHYS 292, ME 290, ES 290

Every student will have the opportunity to:

- *work with UCM faculty: Teamrat Ghezzehei and Mehmet Baykara*
- *network with UCM students across disciplines*
- *learn about techniques to fabricate nanoscale structures*

All PhD students are eligible to enroll

Questions? Email us: ucmcondesa@ucmerced.edu

