Southern Connecticut State University

SCSU

Physics ● Nanotechnology ● Graduate Course

PHY521

NanoTech II: Characterization of Nanomaterials

3 credits

This course will introduce the theory and operating principles for state-of-the-art techniques commonly used in the characterization of nanomaterials. Two important aspects of characterization, imaging and chemical analysis, are included. The course will emphasize atomic force, transmission and scanning electron microscopy. Laboratory visits and hands-on experience at the state-of-the-art research facilities at SCSU and Yale.

PHY521 is a core course for *both* the **SCSU MS in applied Physics** and CT State University System (CSUS) **Graduate Certificate in Nanotechnology**

Prerequisites: PHY519 or departmental permission

Atomic Force microscope (AFM) in the CRISP NanoCharacterization Facility at SCSU

crisp

This course is eligible for the CRISP RET Scholarship program for educators. Application is available at crisp.southernct.edu

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