PHYSICS NANOTECHNOLOGY, GRADUATE CERTIFICATE

For further information: PhysicsGrad@southernct.edu

Application Deadline
Rolling Admissions

Graduate Certificate in Nanotechnology

The Graduate Certificate in Nanotechnology (GCNT) is a three-course graduate certificate program with a prerequisite of one foundational science, technology, engineering, or mathematics (STEM) course at the advanced undergraduate level. The GCNT program provides high quality education and training experiences in the general concepts of nanotechnology and detailed knowledge and practice in the areas of characterization and synthesis of nanoscale materials. The certificate program is designed to be synergistic with the undergraduate and master's programs in the Department of Physics and is closely linked with the establishment of the Connecticut State Colleges & Universities Center for Nanotechnology (ConnSCU-CNT) at SCSU. The GCNT program is multi-institutional in its structure because select faculty from all four CSU campuses (Central, Eastern, Southern, and Western) are involved in the program, but the certificate is issued by the Department of Physics at SCSU.

Program Requirements

The GCNT program consists of three required core courses at the graduate level (9 credits) and one prerequisite course. The three required graduate courses are PHY 519, PHY 521, and PHY 523, described below. Advanced undergraduate or graduate courses in biology, chemistry, engineering, materials science, physics, and others will be considered to meet the three credit prerequisite requirement.

Program Sequence

As sequencing changes, it is highly recommended that students meet with their program advisor to finalize a list of requirements for graduation.

*The GCNT program consists of three required core courses at the graduate level (9 credits) and one prerequisite course

Required Courses
PHY 519 – Nanotech I-Fundamentals of Nanoscience – 3 credits
PHY 521 – Nanotech II-Characterization of Nanomaterials – 3 credits
PHY 523 – Nanotech IV-Nanosystems Laboratory – 3 credits
*Advanced undergraduate or graduate courses in biology, chemistry, engineering, materials science, physics, and others will be considered to meet the three credit prerequisite requirement.

This program is not eligible for financial aid (Title IV and/or State funds).