

# PHYS 4364 : Fundamentals of Nanotechnology

This course will cover fundamental concepts of nanotechnology. After introducing underlying theoretical concepts the relationship between structure, properties (mechanical, electrical, optical, chemical, magnetic), and performance of nanomaterials is investigated. Characterization and fabrication methods, as well as interdisciplinary applications such as nanoelectronics, alternative energy production, drug delivery and therapy are discussed.

**Credits** 3

**Course ID**

008514

**Requisites**

[PHYS 4364](#) Prerequisites: [PHYS 3337](#); Junior-level standing.

**Semester Offered**

Fall semester, even years