

CHEM 4364 : Materials Science

This course will cover physical and chemical concepts of materials with a special emphasis on nanomaterials. After introducing underlying concepts of condensed matter physics the relationship between structure, properties (electrical, optical, chemical, magnetic) and performance of nanomaterials is investigated. Characterization and fabrication methods as well as interdisciplinary applications ranging from drug delivery and therapy to nanoelectronics and alternative energy production are discussed.

Credits 3

Course ID

008515

Requisites

CHEM 4364 Prerequisites: **CHEM 2343**/2143 OR **PHYS 3337**/3137.

Semester Offered

Fall semester, even years