PHYS5376 - Introduction to Materials Science

**PHYS 5376 (MSEN 5300)** Introduction to Materials Science (3 semester credit hours) This course provides an intensive overview of materials science and engineering and includes the foundations required for further graduate study in the field. Topics include atomic structure, crystalline solids, defects, failure mechanisms, phase diagrams and transformations, metal alloys, ceramics, polymers as well as their thermal, electrical, magnetic and optical properties. (3-0) R