

PHYS4720 : Solid State Physics

An introduction to the physics of the solid state of matter. Topics include crystal structure, lattice vibrations and electronic band structure of crystals, electrical, optical, and thermal properties of solids, transport and other non-equilibrium phenomena in uniform and non-uniform solids.

Credits 3

Recommended Prerequisites

It is recommended that Modern Physics ([PHYS3130](#)) or Quantum Mechanics ([PHYS4810](#)) be taken before this course, or the student have some general knowledge of solutions to Schrodinger's Equation.

Prerequisite Courses

PHYS2120

MATH3530

MATH3540

Semester Offered

Alternate years.