

Instructor: Joseph Falson

MS 150 - Functional Electronic Materials:

A course providing an overview of the optoelectronic properties of prominent modern material systems. Chemical, structural, and symmetry relationships in the context of group IV, III-V, and II-VI semiconductors, two-dimensional materials, dielectrics and mesoscopic systems. Content will be presented through discussions on crystal growth considerations, prominent functionalities, and current research frontiers. Prerequisites: APh114a (or equivalent solid-state physics) recommended but not required.

Timing: T/R 9-10:30am

Units: (3-0-6)