

MIME 467. ELECTRONIC PROPERTIES OF MATERIALS.

Credits: 3

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Terms offered: Summer 2025

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Description

Electrons as particles and waves, Schrodinger's Equation, electrical and thermal conductivity, semiconductors, semiconductor devices, fundamentals of magnetism, superconductivity and superconductive materials, dielectric materials, optical properties of materials, LASERs and waveguides. Advanced materials and their technological applications. An introduction to quantum mechanics will be included which will be the foundation upon which energy band diagrams will be built and understood.

- (6-1.5-3.5)
- Prerequisites: MATH 263 and MIME 261
- Restriction: Not open to students who have taken MIME 367

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