

# MIME 574. BATTERY MATERIALS ENGINEERING

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Credits: 3

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

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

## Description

An engineering-focused exploration of the fundamentals and design principles of advanced battery materials. Introductory electrochemistry, the classification of electrochemical systems, engineering design considerations for rechargeable batteries, roles and optimization of battery components, and methods for testing, synthesis, and modeling of materials. Development of sustainable and efficient battery systems, characterization techniques, battery recycling processes, and engineering approaches to advancing battery technologies.

- Prerequisites: MIME 212 and MIME 317, or permission of the instructor.
- (3-0-6)

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