

# MIME 558. ENGINEERING NANOMATERIALS.

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Credits: 3

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

This course is not offered this catalogue year.

## Description

Aspects of manufacturing bulk-nanostructured materials. Fabrication of nanosized and nanostructured precursors (metals, ceramics, intermetallics, CNT). Reactivity, handling and safety of nanoparticles. Processes developed to fabricate bulk nanostructured materials (pressing and sintering, hot pressing and extrusion, ECAP, electrodeposition, spray forming, shockwave compaction). Characterisation of nanostructures. Physical and mechanical properties of nanomaterials.

- (3-0-6)
- Prerequisite: MIME 260 or MIME 261 and MIME 362 or equivalent or permission of instructor
- \*\*Due to the intensive nature of this course, the standard add/drop and withdrawal deadlines do not apply. Add/drop is the second lecture day and withdrawal is the third lecture day.

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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