

MIME 514. SUSTAINABILITY ANALYSIS OF MINING SYSTEMS.

Credits: 3

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

This course is not offered this catalogue year.

Description

Concepts of sustainability analysis applied to mining projects. Case studies topics selected from: Stakeholder Engagement and Participation; Biodiversity and Conservation Management; Mine Water Management; Tailings and Waste Rock Management. Relationship between risk management and life-cycle assessment. Mass balancing and logistical modeling applied within the mining value chain, with an emphasis on sustainability. Quantification of systemic balances between environmental, economic and social indicators, using geostatistical simulations, discrete event simulation, and multi-objective optimization techniques.

- (3-2-4)
- Prerequisite: FACC 300 and MIME 341, or permission of the instructor.

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