

MIME 340. APPLIED FLUID DYNAMICS.

Credits: 3

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

Terms offered: Fall 2025

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Description

Flow analysis and manometry. Conservation of mass and momentum. Flow in pipes and ducts, analysis of pipe networks. First and second law of thermodynamics and their applications. Open channel flows. Dimensional analysis and similitude. Flow measurements. Settling and separation of particles. Non-Newtonian flow and slurry transport. Fluidized beds. Filtration of liquid/solid mixtures. Conduction heat transfer. Convection heat transfer. Principle of heat exchanger.

- Prerequisite: CIVE 205
- (3-3-3)

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