MATERIALS ENGINEERING (NON-THESIS): ENVIRONMENTAL ENGINEERING (M.ENG.) (45 CREDITS)

Offered by: Mining & Materials Engineering (Faculty of Engineering)
Degree: Master of Engineering
Program credit weight: 45

Program Description

This interdepartmental graduate option leads to a Master of Engineering (M.Eng.) Materials Engineering: Non-Thesis-Environmental Engineering. The objective of the option is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. The Environmental Engineering option emphasizes interdisciplinary fundamental knowledge, practical perspectives, and awareness of environmental issues through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University. Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in the program.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
MIME 680	Materials Engineering Project 1.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 591	Environmental Bioremediation.	3
CIVE 615	Environmental Engineering Seminar.	3

Complementary Courses (22 credits)

(minimum 22 credits)

Data Analysis Course

One of the following courses:

Expand allContract all

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology Course

One of the following courses:

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3
OCCH 616	Occupational Hygiene.	3

Water Pollution Engineering Course

One of the following courses:

Expand allContract all

Course	Title	Credits
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4

Air Pollution Engineering Course

One of the following courses:

Expand allContract all

Course	Title	Credits
CHEE 592	Industrial Air Pollution Control.	3
MECH 534	Air Pollution Engineering.	3

Soil and Water Quality Management Course

One of the following courses:

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CIVE 686	Site Remediation.	4

Environmental Impact Course

One of the following courses:

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

or an approved 500-, 600-, or 700-level alternative.

Environmental Policy Course

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

or an approved 500-, 600-, or 700-level alternative.

Elective Courses (11 credits)

(minimum 11 credits)

Another project course and/or Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval of the Department.

The relevant Project course in Materials Engineering is the following:

Expand allContract all

Course	Title	Credits
MIME 681	Materials Engineering Project 2.	6