

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

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The program consists of a minimum of 45 credits, of which, depending on the student's home department, a minimum of 5 and a maximum of 15 may be allotted to the research project. The balance of 30 to 40 credits is earned by coursework. The Department also allows students to complete the program using a minimum of 45 credits of coursework only.

The Environmental Engineering option is administered by the Faculty of Engineering. Further information may be obtained from the Program Coordinator, Department of Civil Engineering.

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 (0 or 5-15 credits)

The program may include a project or, with Departmental approval, may be completed with courses only.

Required Courses (6 credits)

Expand allContract all

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

Complementary Courses (24-39 credits)

a minimum of 22 credits chosen from the following:

Data analysis

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

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3

Water pollution engineering

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

Expand allContract all

Course	Title	Credits
MECH 534	Air Pollution Engineering.	3

Soil and water quality management

Expand allContract all

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

Environmental impact

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

Environmental policy

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

Elective Courses

Also, 0-15 credits of graduate courses from an approved list of courses from the Faculties of Engineering, Agricultural and Environmental Sciences, Law, Management; Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, School of Religious Studies, Sociology, and Bieler School of Environment.