

**FOR APPROVAL**

**PUBLIC**

**OPEN SESSION**

**TO:** UTSC Academic Affairs Committee

**SPONSOR:** Prof. Karin Ruhlandt, Vice-Principal Academic and Dean  
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**CONTACT INFO:**

**DATE:** September 11, 2025

**AGENDA ITEM:** 7

**ITEM IDENTIFICATION:**

Minor Modifications: Graduate Out-of-cycle Curriculum Changes, UTSC

**JURISDICTIONAL INFORMATION:**

The UTSC Academic Affairs Committee (AAC) “is concerned with matters affecting the teaching, learning and research functions of the Campus (AAC *Terms of Reference*, section 4).” Under section 5.6 of its *Terms of Reference*, the AAC is responsible for approval of “major and minor modifications to existing degree programs.”

The AAC has responsibility for the approval of major and minor modifications to existing programs as defined by the [University of Toronto Quality Assurance Process](#) (UTQAP, Section 3.1 and 3.3).

**GOVERNANCE PATH:**

1. UTSC Academic Affairs Committee [For consent Approval] (September 11, 2025)

**PREVIOUS ACTION TAKEN:**

No previous action in governance has been taken on this item.

**HIGHLIGHTS:**

This package contains minor modifications to the graduate curriculum submitted by UTSC academic units listed below. These changes require governance approval. Minor modifications are defined as adjustments that do not substantially alter program or course learning outcomes but may involve modest

changes to the structure of a program or course. Upon approval, these updates will be implemented for the 2025-2026 academic year.

- Graduate Department of Physical and Environmental Sciences (Report: Graduate Minor Curriculum Modifications Out-of-Cycle for Consent Approval)
  - 1 Course modification
    - EES1125H: Contaminated Site Remediation

### **FINANCIAL IMPLICATIONS:**

There are no significant financial implications to the campus operating budget.

### **RECOMMENDATION:**

Be It Resolved:

THAT the proposed graduate curriculum changes for the 2025-26 academic year, as detailed in the respective curriculum report, be approved effective September 2, 2025.

### **DOCUMENTATION PROVIDED:**

Report – Graduate Minor Curriculum Modifications Out-of-Cycle for Consent Approval



University of Toronto Scarborough  
2025-26 Curriculum Cycle  
Graduate Minor Curriculum Modifications Out-of-Cycle for Consent Approval  
Date: September 11, 2025

Physical and Environmental Sciences, Department of (Graduate Unit)

1 Course Modification

EES1125H: Contaminated Site Remediation

**Description:**

**Previous:**

This course elaborates on the practical implementation of the common remediation processes including Soil Vapour Extraction, Groundwater Pump and Treat (including treatment train design), Monitored Natural Attenuation, Bioremediation and novel innovative methods. Each method considered will be evaluated in the context of the applicability & treatment analyses, and pilot studies that must be completed before project implementation; full scale design & construction; startup & optimization; reporting requirements; off-gas/residue treatment methods; decommissioning & closure.

**New:**

This course provides a practical exploration of environmental management and site remediation strategies, emphasizing the integration of science, professional judgment, business considerations, and the perspectives of project partners as well as both affected and interested parties. Students will examine why no single approach suits all contaminated sites and learn to assess and apply multiple remediation methods to address varied site-specific objectives.

Through real-world case studies and interactive discussions, students will analyze the strengths, limitations, and challenges of a range of in-situ and ex-situ remedial technologies, including Bioremediation, Chemical Oxidation and Reduction, Soil Vapour Extraction, Pump and Treat, Excavation, and emerging innovative techniques.

By the end of the course, students will be prepared to critically evaluate environmental management and remediation options in complex scenarios. They will be able to assess the technical, economic, and regulatory feasibility of different strategies while accounting for the diverse needs and expectations of project partners as well as both affected and interested parties-that can influence both decision-making and remedial design.

**Rationale:**

The revised description more accurately reflects the course goals and learning outcomes, providing students with clearer information. MEnvSc students will benefit from the change, as will partner employers, who rely on course descriptions to understand the training students have received when assessing suitability for internship positions. This will directly benefit students taking the course this academic year.

The course was submitted outside the regular Fall 2025 cycle because it is taught by a sessional instructor from industry who is less familiar with submission timelines.

**Consultation:**

Grad DCC Approval: July 24, 2025

VPAP Approval for Out-of-cycle submission: July 16, 2025

Dean's Office Approval:

**Resources:** None

**Proposal Status:** Under Review