

TROTTIER INSTITUTE FOR SUSTAINABILITY IN ENGINEERING AND DESIGN

Location

TISED

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About the Trottier Institute for Sustainability in Engineering and Design

Established in 2012 through a gift from the Trottier Family Foundation, the Trottier Institute for Sustainability in Engineering and Design (TISED) supports research and offers courses on sustainability in engineering and design at the Faculty of Engineering and informs and educates decision-makers and the public about sustainability issues.

TISED offers the Sustainability in Engineering and Design (Non-Thesis) (M.Eng.) which comprises a broad sustainability training in an interdisciplinary environment. The program—open to students with an undergraduate degree in engineering, urban planning, or architecture—offers advanced training in fundamental and contemporary concepts of sustainability and equips students with specific skills to understand and address critical sustainability challenges in the practice of engineering, architecture, and urban planning.

The interdisciplinary format of the program allows students to learn to integrate non-engineering disciplines and systems-based approaches, such as industrial ecology and life-cycle assessment, into their engineering and design solutions. Program graduates will understand the broad ramifications of sustainability and its interplay with engineering and design and be able to implement sustainable engineering and design solutions within the context of broader sustainability theory for their future employers in industry, government, or academia.

For more information, please see the graduate section of the Course Catalogue.

Undergraduate Courses at TISED

The following TISED courses are open to undergraduate students:

Expand allContract all

Course	Title	Credits
SEAD 500	Foundations of Sustainability for Engineering and Design.	3
SEAD 510	Energy Analysis.	4
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3
SEAD 520	Life Cycle-Based Environmental Footprinting .	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SEAD 540	Industrial Ecology and Systems.	3
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3