

SEAD 520. LIFE CYCLE-BASED ENVIRONMENTAL

Credits: 3

Offered by: Trottier Inst Sust,Eng&Design (Faculty of Engineering)

Terms offered: Fall 2025

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Description

Introduction to Life Cycle-Based Environmental Footprinting and the application of basic methods for life-cycle environmental inventory and impacts modeling. LCA theory and quantitative analysis, approaches for assessing and reducing the environmental impacts of product, process, and technology systems. System boundary and functional unit design approaches, process-based and input-output-based methods for modeling mass and energy flows in life-cycle systems. How LCA can facilitate sustainable technology innovation and deployment, behavioural and societal changes, and policies, standards and regulations.

- (3-0-6)
- Restrictions: Restricted to students registered in the Faculty of Engineering (including the School of Architecture and the School of Urban Planning).

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