

# ARCH 447. ENERGY, ENVIRONMENT, AND BUILDINGS 2.

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Credits: 3

Offered by: Architecture (Faculty of Engineering)

Terms offered: Fall 2025

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## Description

Advanced exploration of the interrelationships among energy, environment, and building. Topics include energy efficiency, thermal envelopes, life-cycle design, materials selection, fluid mechanics of natural ventilation, thermal science of passive design, adaptive thermal comfort, the 'air-conditioning trap', the 'embodied carbon blindspot,' and the 'timber-carbon sink'.

- Section 01: Architecture students
- Section 02: others; limited enrolment.
- (3-0-6)
- Prerequisite(s): ARCH 240, ARCH 378

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