

BUILDING THE ECOCITY

School of Construction and the Environment

British Columbia Institute of Technology

bcit.ca



ECOCITIES are cities in balance with nature, concerned with the natural environment, the built environment, and the relationship between them.

BUILDING THE ECOCITY is a modularized program focusing on urban metabolism, green infrastructure, one-planet-living, and ecological footprint analysis.

**ECOCITY
BUILDERS**

COURSE DESCRIPTION

This course delves into the foundations of what constitutes an ecocity, including understanding urban ecosystems, the structural elements of ecocities, and their sustainability assessment.

Students will be introduced to the International Ecocity Framework and Standards and given an opportunity to work with tools that assess the sustainability of a city, using Vancouver as a case study.

Students will engage in theoretical and hands-on learning, complemented by field trips and site visits to demonstrations of ecocity building in practice.

TOPICS INCLUDE

- Introduction to the concept of urban ecosystems
- Exploration of the structural elements of ecocities
- Sustainability assessment of the built environment
- Understanding urban energy and material flows
- Conceptualizing the city for one-planet living
- Exploring the potential of cities for:
 - urban agriculture
 - rainwater harvesting and aquifer recharge
 - car-free living
 - net zero buildings

REGISTRATION

This course is offered in a cohort model; modules, length of delivery and other program requirements (e.g. accommodations, etc.) to be determined.

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