

Passive House Design and Construction

In this intensive 36-hour course you gain the knowledge and tools you need to design and build compliant Passive Houses in Canada. The world's leading standard in low-energy, sustainable construction, Passive House building techniques result in an 80-90% reduction in annual heating and cooling energy without the need for expensive renewable energy systems. Training material is geared to practical applications within Canadian building traditions, and respecting our residential building codes.

The focus and benefits of the course include:

- Passive House design theory
- building science for radical conservation
- building envelope optimization for cold climates
- hands-on building performance modelling using the PHPP design software
- mechanical system design for comfort and performance
- thermal bridge-free design of building assemblies
- architectural details and technical solutions
- detailed Canadian case study examples.

This course can be taken alone or as part of the UBC Award of Achievement in Sustainability Management.

This course is approved by AIBC for 36 Core LUs

Instructors:

GUIDO WIMMERS, Dipl.-Ing., PhD, MRAIC, LEED AP

MARYBETH WELTY, B.Sc., D.I.D., LEED GA

8 Tue, Jan 31-Mar 20, 6:30-9:30pm and

2 Sat, Feb 11 & Mar 17, 9am-5pm

UBC Robson Square. \$1250



Photo Source: Melis&Melis&Wimmers

In collaboration with the Canadian Passive House Institute

cstudies.ubc.ca/ph
604.822.5042



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA