ABPL30033 Intro to Building Energy Modelling

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	This subject is not offered in 2013. This subject may be run as an intensive, or in a non-standard format. Students are advised to check the timetable for details.
Time Commitment:	Contact Hours: 1x1 hour lecture per week, 1x3 hour practical per week Total Time Commitment: 120 hours
Prerequisites:	None specified
Corequisites:	None specified
Recommended Background Knowledge:	None specified
Non Allowed Subjects:	None specified
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Contact:	Environments and Design Student Centre T: +61 3 8344 6417/9862 F: +61 3 8344 5532 Email: **envs-courseadvice@unimelb.edu.au (mailto:envs-courseadvice@unimelb.edu.au)**
Subject Overview:	The subject teaches the basics of several modelling tools, from the simplified EcoTect to the more complex Trnsys. Based on a case study approach students will be taught the basics of the programs followed by time in the computer labs working on the software. Each day will comprise of learning about elements of good modelling, energy efficient building design and options at a residential scale. Students will then be asked to model these for their own projects. The final part of the course will be to teach critical evaluation, understanding and communication of the modelling results - aiming to build the ability to investigate, interpret and analyse variations.
Objectives:	On successful completion, students will be able to: # appreciate the strengths and weaknesses of various energy modelling software types; # analyse the results of various modelling outputs; # identify and describe opportunities demonstrated by the analysis; # carry out basic modelling; # communicate the benefits of various alternative options; # appreciate the relationship between design elements and thermal performance.
Assessment:	One 2 hour examination (50%) One assignment analysing a simple project and presenting the various options for improved performance (50%).
Prescribed Texts:	None specified
Breadth Options:	This subject is not available as a breadth subject.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees