

702-350 Intro to Building Energy Modelling

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: - Total Time Commitment: 120 hours
Prerequisites:	-
Corequisites:	-
Recommended Background Knowledge:	-
Non Allowed Subjects:	-
Core Participation Requirements:	-
Coordinator:	Dr Dominique Hes
Contact:	-
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:	-
Assessment:	One 2 hour examination (50%) One assignment analysing a simple project and presenting the various options for improved performance (50%).
Prescribed Texts:	-
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
Generic Skills:	On successful completion, students will be able to: <ul style="list-style-type: none"> # 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
Links to further information:	http://www.abp.unimelb.edu.au/environments-and-design-students/abp-ugrad-students.html