702-662 Resource Friendly Building Operations

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus. On campus
Time Commitment:	Contact Hours: 4 hours per week (48 hours total) Total Time Commitment: 120 hours maximum, 100 hours minimum
Prerequisites:	Environmental Systems, Advanced Services or the approval of the subject coordinator.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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
Coordinator:	Associate Professor Eckhart Hertzsch
Subject Overview:	Modern construction methods and the integration of engineering services. The anatomy and operation of engineering services in large and complex building types including hospitals and industrial buildings. Energy and sustainability, low and no energy systems. Indoor air quality and its maintenance at high levels; natural ventilation. Intelligent buildings, building automation and fire and security controls. Telecommunications and networking. Materials handling, and waste management. Upon completion of this subject students should have gained: • An understanding of modern building methods and operations • Knowledge of sustainable construction and engineering services • Knowledge of specific building operations relating to fire, security, telecommunications, networking etc.
Assessment:	Project proposal of up to 1000 words due in week 4 (20%) and written and/or graphic project of at least 4000 words due at the end of semester.
Prescribed Texts:	None
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 completion of the subject students should have developed the following skills and capabilities: • Critical analysis and resolution of building related problems. • Correct use of technical terminology. • Research and analysis of building methods and new products. • ability to comprehend complex concepts and express them lucidly, orally and textually.

Related Course(s):	Master of Construction Management Master of Planning and Design (Coursework) Master of Property Master of Property and Construction (by coursework)