

702-465 Environmental Systems

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: Two hours of lectures and an average of one hour of seminars per week Total Time Commitment: Not available
Prerequisites:	Admission to the B.Arch or BPC program.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>
Coordinator:	Dr Dominique Hes
Subject Overview:	<p>This subject covers key elements of building services and sustainability. The services component of the subject (50%) includes refrigeration, heating and air handling, evaporative cooling, vertical transportation, industrial building HVAC and related comfort issues, indoor air quality and acoustics. The sustainability component of the subject (50%) covers strategies and technologies to reduce building energy consumption. topics include facade systems, solar technologies, lighting strategies and hybrid (mixed mode) systems; implications for energy demand are addressed.</p> <p>Environmental rating tools and post-occupancy evaluation will be introduced as well as specific case studies.</p>
Assessment:	One two-hour examination (70%). Exercises (which may include written and drawn assignments, class presentations etc.) equivalent to not more than 3000 words (30%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.
Prescribed Texts:	Prescribed Texts:Building Services: A guide to integrated design: Engineering for architects (R.P. Parlour), Pymble NSW Integral Publishing (2000)
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:	<p>On completion of the subject students should have developed the following skills and capabilities:</p> <ul style="list-style-type: none"> # Application of calculation methods. # Correct use of technical terminology.

	# Interpersonal skills and communication with consultants.
Related Course(s):	Bachelor of Architecture Bachelor of Architecture and Bachelor of Landscape Architecture Bachelor of Property and Construction