

702-865 Environmental Systems (PG)

Credit Points:	12.500
Level:	Graduate/Postgraduate
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. Estimated total time commitment: (including non-contact time): 120hrs. Total Time Commitment: Not available
Prerequisites:	Admission to the BArch 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><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> </p>
Coordinator:	Dr Dominique Hes
Subject Overview:	This subject covers key elements of building services and sustainability. The services component of the subject (50%) includes refrigeration, heating and air handling plant; air distribution; energy efficiency, and documentation of air-conditioning system designs; nonresidential electrical, telecommunications, transportation and building management systems; special servicing conditions including: hospitals, auditoria, industrial buildings, commercial kitchen planning, and district services. The sustainability component of the subject (50%) includes design for daylighting, natural ventilation and mixed mode systems, displacement ventilation, evaporative cooling and radiant cooling systems, active solar heating and cooling systems; indoor air quality, environmental comfort and post-occupancy evaluation; principles of room acoustics and sound isolation.
Assessment:	One two-hour examination (70%). Exercises (eg. written and drawn assignments, class presentations) equivalent to not more than 3000 words (30%). Students must demonstrate a high level of engagement with and/or critical analysis of the subject content to complete the subject at postgraduate level, and will be subject to assessment at postgraduate level.
Prescribed Texts:	None
Recommended Texts:	Parlour, R. P. <i>Building services: a guide to integrated design: engineering for architects</i> . Pymble, N.S.W.: 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:	On completion of this subjects students will have a working familiarity with both passive and active systems of environmental control used in commercial and institutional buildings. Generic Skills:

	<ul style="list-style-type: none"># Application of calculation methods# Correct use of technical terminology# Relating to consultants
Related Course(s):	Graduate Diploma in Building Surveying Graduate Diploma in Planning and Design Master of Architecture Master of Construction Management Master of Property