

421-697 Heating, Ventilation and Airconditioning

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: 36 Hours; Non contact time commitment 84 Hours Total Time Commitment: Not available
Prerequisites:	None
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>
Subject Overview:	Topics covered include applications of refrigeration and air conditioning, psychrometry and conditioning process, indoor air quality, heating and cooling load, air conditioning and distribution systems, pumps and piping systems, cooling and dehumidifying coils, HVAC system control, acoustic and noise control, design for efficiency. Vapour compression refrigeration system, refrigeration multi pressure systems, cooling towers, vapour absorption refrigeration system, absorption system, heat pumps and energy conservation.
Assessment:	One 3 hour examination (50%). Project work approximately 2,000 words (50%).
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:	<p>On successful completion, students should be able to:</p> <ul style="list-style-type: none"> # evaluate the suitability of a given heating, ventilating and air conditioning (HVAC) system for a given application # analyse and design refrigeration and air conditioning systems # understand the design optimisation process of systems
Related Course(s):	Master of Energy Studies Master of Engineering Project Management Master of Engineering Structures Master of Environmental Engineering Master of Utilities Management Master of Water Resource Management