

702-244 Environmental Building Systems

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 1 hr Lecture per week and 2 hours Tutorial per week. Total Time Commitment: 120 hours
Prerequisites:	ENVS10003 Constructing Environments
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:	Mr Blair Gardiner
Subject Overview:	This subject covers key elements of building services and sustainability. The subject includes vertical transportation, refrigeration, heating and air conditioning and related comfort issues of indoor air quality, lighting, room acoustics and sound isolation. It also includes services for fire safety, electrical, telecommunications and building management systems; special servicing conditions including hospitals, auditoria, industrial buildings, commercial kitchen planning and district services. It also covers strategies and technologies for reducing systems, displacement ventilation, evaporative cooling and radiant cooling systems, active solar heating and cooling systems, post-occupancy evaluation, facade systems, solar technologies, hybrid(mixed-mode) systems, as well as environmental rating tools for comparing building performance.
Objectives:	<p>On completion of this subject, students will be able to:</p> <ul style="list-style-type: none"> # Understand the principles and techniques of environmental control systems # Integrate environmental controls into architectural designs in a sustainable manner.
Assessment:	Submission and presentation of written and/or graphic material to the equivalent of 3000 words (60%) plus a 2 hour examination (40%).
Prescribed Texts:	None
Recommended Texts:	<p>Recommended texts:</p> <p>Edward Allen & Patrick Rand, 2007, Architectural Detailing: Function, Constructibility, Aesthetics, 2nd edn, Hoboken NJ: Wiley (1993)</p>
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09)

	<ul style="list-style-type: none"> # Bachelor of Biomedicine (https://handbook.unimelb.edu.au/view/2009/J07) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05) # Bachelor of Science (https://handbook.unimelb.edu.au/view/2009/R01) # Bachelor of Engineering (https://handbook.unimelb.edu.au/view/2009/355-AA) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # Written, verbal and graphic presentation of ideas, # Critical thinking and analysis, # Evaluation of existing knowledge, # Appropriate use of design terminology, and, # Application of generic theories to specific examples.
Links to further information:	http://www.benvs.unimelb.edu.au/
Related Majors/Minors/Specialisations:	Architecture Construction