

# ABPL90032 Building Services and Operations

<b>Credit Points:</b>	12.5						
<b>Level:</b>	9 (Graduate/Postgraduate)						
<b>Dates &amp; Locations:</b>	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
<b>Time Commitment:</b>	Contact Hours: 1 x 3-hour studio per week Total Time Commitment: 170 hours						
<b>Prerequisites:</b>	<p>Admission into MC-CONMG2Y Master of Construction Management (200 points)</p> <p><b>OR</b></p> <p>Admission into one of the following courses:</p> <p>MC-PROP Master of Property MC-PROP2Y Master of Property (200 points) MC-PROP3Y Master of Property (300 points) MC-CM Master of Construction Management MC-CONMG3Y Master of Construction Management (300 points) 441ME Master of Environments</p> <p><b>PLUS</b></p> <p>ABPL90086 Environmental Systems</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ABPL90086 Environmental Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	ABPL90086 Environmental Systems	Semester 2	12.50
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ABPL90086 Environmental Systems	Semester 2	12.50					
<b>Corequisites:</b>	None						
<b>Recommended Background Knowledge:</b>	None						
<b>Non Allowed Subjects:</b>	<b><u>ABPL90032 Resource Friendly Building Operations (../view/2011/ABPL90032)</u></b>						
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;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.&lt;/p&gt; &lt;p&gt;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: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>						
<b>Coordinator:</b>	Mr Christopher Jensen						
<b>Contact:</b>	<p>Email: <a href="mailto:cjensen@unimelb.edu.au">cjensen@unimelb.edu.au</a> (<a href="mailto:cjensen@unimelb.edu.au">mailto:cjensen@unimelb.edu.au</a>)</p> <p>The Eastern Precinct (building 138) (between Doug McDonnell building and Eastern Resource Centre)</p> <p><b>Enquiries:</b> Current Student: <a href="http://ask.unimelb.edu.au/">http://ask.unimelb.edu.au/</a> (<a href="http://ask.unimelb.edu.au/">http://ask.unimelb.edu.au/</a>) Web: <a href="http://edsc.unimelb.edu.au/">http://edsc.unimelb.edu.au/</a> (<a href="http://edsc.unimelb.edu.au/">http://edsc.unimelb.edu.au/</a>)</p>						
<b>Subject Overview:</b>	The focus of this subject lies in the integration of services and energy efficient strategies into the fabric of the building and its construction process. After introductory material on environmental quality and energy related issues, the subject provides students with knowledge in the field						

	of electrical, mechanical, air handling, hydraulic and communication services and particularly the construction issues they generate: levels of documentation and decision-making required; connections with process planning; spatial requirements for functioning, installation and access purposes; protection and quality assurance; building tolerances; systems integration; layout strategies; work sequences and temporary works; contract coordination; testing; maintenance; and upgrading-replacement.
<b>Learning Outcomes:</b>	<ul style="list-style-type: none"> <li># To introduce students to systems and types of mechanical and engineering services needed in buildings;</li> <li># To develop an understanding of basic modes of energy transfer;</li> <li># To gain understanding of spatial and installation requirements for services;</li> <li># To improve an understanding of the construction processes involved.</li> </ul>
<b>Assessment:</b>	Class participation (10%), to drive collective, creative technical outcomes during class discussions. Gathering of discussion-specific data throughout the semester equivalent to 2000 words (40%) due in week 8, requiring independent and team research about technical and construction aspects of building services. Professional report equivalent to 3000 words (50%) due in week 12. This major work demonstrates the technical understanding and ability to evaluate building services options in design and construction.
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>On completion of the subject students should have developed the following skills and capabilities:</p> <ul style="list-style-type: none"> <li># Ability to critically analyse systems needed for particular building use;</li> <li># Ability to use correct technical terminology;</li> <li># Ability to comprehend construction constraints and building operations.</li> </ul>
<b>Related Course(s):</b>	Master of Property Master of Property
<b>Related Majors/Minors/Specialisations:</b>	200 point Master of Property 300 point Master of Property Building Building Systems and Trade Specialties Cost Management Energy Efficiency Modelling and Implementation Energy Efficiency Modelling and Implementation Energy Studies Energy Studies Environmental Science Environmental Science Melbourne School of Design multidisciplinary elective subjects Project Management Research and Development Tailored Specialisation Tailored Specialisation