

## 702-819 Science and Services (PG)

<b>Credit Points:</b>	12.500
<b>Level:</b>	Graduate/Postgraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Three hours of lectures, seminars and tutorials per week. Total Time Commitment: Not available
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<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; <p>&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> </p>
<b>Coordinator:</b>	Dr Scott Drake
<b>Subject Overview:</b>	<p>Services (50% of course content): mechanical, electrical and hydraulic services for residential scale buildings, building fire and security control, the planning of services intensive spaces.</p> <p>Thermal Performance and Lighting (50% of course content): human comfort, heat flow, transmission, infiltration, control of solar impact, building envelope performance, heating and cooling loads, energy efficiency, daylighting, perceptions, measurement and control; artificial lighting, concepts, design calculations.</p>
<b>Assessment:</b>	One two-hour examination (70%), exercises - including written and drawn assignments - and class presentations equivalent to not more than 3000 words (30%).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	To be advised.
<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 be able to:</p> <ul style="list-style-type: none"> <li># Direct the work of specialist professional counterparts in services industries</li> <li># Calculate energy efficiency of heating and cooling of buildings</li> <li># Understand how to apply shading to control solar gain</li> <li># Calculate day lighting in buildings</li> </ul> <p>On completion of the subject students should have developed skills in research, critical analysis and writing and some experience with group work.</p>