

# ABPL30040 Measurement of Building Works

<b>Credit Points:</b>	12.50									
<b>Level:</b>	3 (Undergraduate)									
<b>Dates &amp; Locations:</b>	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.									
<b>Time Commitment:</b>	Contact Hours: 1 x 2 hour lecture per week; 1 x 2 hour tutorial per week Total Time Commitment: 120 hours									
<b>Prerequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ABPL20042 Residential Construction and Structures</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ABPL20041 The Construction Context</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Note: ABPL20041 The Construction Context may be taken concurrently with this subject. If you have not completed The Construction Context and wish to take it and Measurement of Building Works concurrently, you will need to contact your course adviser in the Eastern Precinct Student Centre.</p>	Subject	Study Period Commencement:	Credit Points:	ABPL20042 Residential Construction and Structures	Semester 2	12.50	ABPL20041 The Construction Context	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:								
ABPL20042 Residential Construction and Structures	Semester 2	12.50								
ABPL20041 The Construction Context	Semester 1	12.50								
<b>Corequisites:</b>	None									
<b>Recommended Background Knowledge:</b>	Basic computer skills.									
<b>Non Allowed Subjects:</b>	None									
<b>Core Participation Requirements:</b>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>									
<b>Coordinator:</b>	Dr Ajibade Aibinu									
<b>Contact:</b>	Email: <a href="mailto:aaibinu@unimelb.edu.au">aaibinu@unimelb.edu.au</a> ( <a href="mailto:aaibinu@unimelb.edu.au">mailto:aaibinu@unimelb.edu.au</a> )									
<b>Subject Overview:</b>	This subject introduces the quantification of building works. It covers the principles and practice of measurement in simple residential construction including the application and use of the Australian Standard Method of Measurement (ASMM) of Building works in practice. It covers the following aspects: writing description/specifications for measured building items; purpose and preparation of Bill of Quantities (BoQ); Processes of preparing BoQ including: taking-off, working-up, abstracting and billing; types of bill formats and their uses; basic principles of measurement and description of the following: groundworks (ordinary strip foundation on flat sites – linear) and superstructure (walls – masonry, and partitions including cladding; floors in concrete, reinforcement and formwork, simple timber pitched roof, Roofing, and finishes); Concept of BoQ estimating, pricing of items and introduction to building-up of rates for work items; Introduction to computerised measurement; Tender process.									
<b>Objectives:</b>	Upon completion of this subject students should be able to: <ol style="list-style-type: none"> <li>1 Apply the Standard Method of Measurement (SMM) to quantification of the works for simple buildings.</li> <li>2 Measure quantities for groundworks; masonry (Brickwork); concrete/reinforcement and formwork; simple timber pitched timber roof; roofing, and finishes.</li> <li>3 Describe a bill of quantities</li> </ol>									

	<p>4 Produce a bill of quantities for groundworks; masonry (Brickwork); concrete/reinforcement and formwork; simple timber pitched timber roof; roofing, and finishes.</p> <p>5 Investigate and price measured building work items in a Bill of Quantities (BoQ).</p> <p>6 Explain the application of computer software to measurement of building works.</p> <p>7 Demonstrate understanding of the theory and practice of competitive tendering.</p> <p>8 Explain the role of cost management of building works.</p>
<b>Assessment:</b>	Four practical exercises and assignments (40%). Three-hour exam (60%). Students are required to achieve a mark of at least 40% in the exam in order to pass the subject. Attendance and participation in 80% of the tutorials is a mandatory requirement for passing the continuous assessment component of this subject.
<b>Prescribed Texts:</b>	Marsden, P. (1998) Basic Building Measurement, University of NSW Press. AIQS et al (1990) Australian Standard Method of Measurement, AIQS & MB-CHAA. Picken, D. (1999) Building Measurement: Worked Examples, Deakin University Press. Sierra, J.J.E. (1991) Building Measurement: A Guide to the Australian Standard Method of Measurement of Building Works, OTEN.
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ARTS">https://handbook.unimelb.edu.au/view/2012/B-ARTS</a>)</li> <li># <b>Bachelor of Biomedicine</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-BMED">https://handbook.unimelb.edu.au/view/2012/B-BMED</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-COM">https://handbook.unimelb.edu.au/view/2012/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ENVS">https://handbook.unimelb.edu.au/view/2012/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-MUS">https://handbook.unimelb.edu.au/view/2012/B-MUS</a>)</li> <li># <b>Bachelor of Science</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-SCI">https://handbook.unimelb.edu.au/view/2012/B-SCI</a>)</li> <li># <b>Bachelor of Engineering</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ENG">https://handbook.unimelb.edu.au/view/2012/B-ENG</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<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>At the completion of the subject students should have developed the following skills and capabilities:</p> <ul style="list-style-type: none"> <li># Effective participation as a team member.</li> <li># Written, verbal and visual presentation of ideas</li> <li># Correct use of technical terminology relating to quantification of building works and cost estimating.</li> <li># Information gathering and critical synthesis skills</li> <li># Identification and familiarity with building components</li> <li># Understanding of construction documentation used in residential construction.</li> </ul>
<b>Notes:</b>	Students undertaking this subject will be expected to regularly access an internet-enabled computer (in particular the University's Learning Management System - LMS) for access to information and for online discussion and communication with their tutors and their peers.
<b>Related Majors/Minors/Specialisations:</b>	<p>Construction major</p> <p>Environments Discipline subjects</p> <p>Restrictions for Breadth Options within the Bachelor of Environments - relating to specific majors</p>
<b>Related Breadth Track(s):</b>	Construction