

## ABPL20013 Structural Systems

<b>Credit Points:</b>	12.50
<b>Level:</b>	2 (Undergraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2013.
<b>Time Commitment:</b>	Contact Hours: 1x2 hour lecture per week, 1x2 hour tutorial per week Total Time Commitment: Not available
<b>Prerequisites:</b>	<b><u>702-137 Construction Technology 1A</u> (<a href="http://handbook.unimelb.edu.au/view/2008/702-137">../view/2008/702-137</a>)</b>
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	<b><u>702-238 Structural Systems</u> (<a href="http://handbook.unimelb.edu.au/view/2009/702-238">../view/2009/702-238</a>)</b> 702-838 (ABPL00231) - Structural Systems (PG)
<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>Contact:</b>	Email: <a href="mailto:massoud@unimelb.edu.au">massoud@unimelb.edu.au</a> ( <a href="mailto:massoud@unimelb.edu.au">mailto:massoud@unimelb.edu.au</a> )
<b>Subject Overview:</b>	This subject covers general concepts and fundamentals of structural systems as they apply to architect designed structures and commercial and industrial buildings. Content will review basic concepts essential to the understanding of structural behaviour and how these apply to building elements and construction materials. It will provide an overview of structural systems through structural and architectural typology and introduce various forms of preliminary investigations central to structural design.
<b>Objectives:</b>	<p>On successful completion of this subject, students should be able to:</p> <ul style="list-style-type: none"> <li># List and describe the external forces which might be applied to a building</li> <li># Describe and explain the basic structural actions generated in building elements and associate appropriate structural design responses</li> <li># Apply critical observational and research skills in the analysis of factors that impact on design and construction</li> <li># Interpret , analyse, apply and evaluate the language of structural documentation</li> <li># Appraise and choose appropriate structural typologies relevant to architectural and construction design</li> <li># Synthesise information and make judgements and decisions related to construction practice.</li> </ul>
<b>Assessment:</b>	Progressive assessment comprising written assignment (2000 words, 20%) and two in-class tests worth 10% each (40% total) Final two-hour exam as a review of the semester's work (60%) Regardless of assignment results, a minimum grade of 40% must be achieved in the exam in order to pass the subject.
<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 communicate effectively with construction professionals and the public in general;</li><li># ability to undertake problem identification, formulation and solution;</li><li># capacity for independent critical thought, rational inquiry and self-directed learning;</li><li># ability and self-confidence to comprehend complex concepts, to express them lucidly, whether orally or in writing, and to confront unfamiliar problems.</li></ul>
<b>Notes:</b>	Formerly available as 702-238 Construction Technology 2B. Students who have completed 702-238 are not eligible to enrol in this subject.