702-411 Advanced Construction

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Four hours of lectures/seminars/tutorials and site visits per week Total Time Commitment: Not available
Prerequisites:	702-308 Structures and Construction 3A and 702-309 Structures and Construction 3B, or equivalent
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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
Coordinator:	Mr Peter Ashford
Subject Overview:	Topics are selected from and may include the rehabilitation and recycling of existing buildings; concrete repair and protection covering investigation techniques and repair methods; strengthening of existing structures; the development, form and structural behaviour of spatial structures including space frames, cable supported and tension membranes with an emphasis on buildability and construction detailing; facade construction including architectural, performance and detailing; high performance concrete including construction of superflat concrete ground slabs, fibre reinforcement technology and admixtures; ultra high performance concrete and marine structures. On completion of the subject students should be able to: # Link structural design concepts and relate these to current construction practices. # Communicate construction solutions by means of sketches and drawings. # Propose and evaluate alternative construction systems.
Assessment:	One three-hour examination (70%). Written and drawn assignments equivalent to not more than 2000 words (30%). A minimum grade of at least 40% must be achieved in the final examination to pass the subject.
Prescribed Texts:	TBC
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of the subject students should have developed the following skills and capabilities:

	# Research and analysis of new construction methods and new products # Effective participation as a team member # Critical analysis and resolution of construction related problems.
Related Course(s):	Bachelor of Property and Construction