880-103 Constructing Environments

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus. Semester 2, - Taught on campus. On-campus
Time Commitment:	Contact Hours: 24 hours of lectures and 24 hours of tutorials Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. This course requires all students to enrol in subjects where they must actively and safely contribute to class activities. Students who feel their disability will affect their meeting this requirement are encouraged to discuss this matter with the Subject Coordinator and the Disability Liaison Unit.
Coordinator:	Prof Graham Hutchinson & Ms Clare Newton
Subject Overview:	What are the structural principles and material properties that underpin the form and fabric of the natural and built environments? Through analysis, observation, experimentation, testing and review, students will explore examples and applications from both natural and artificial structures. Through exercises, site visits and model making students will engage with Structures - e.g. force and support systems, and Materials e.g. metals, masonry, ceramics, polymers and timber. Physical and environmental properties of materials are presented together with their mechanical properties, and life cycle issues including embodied energy.
Assessment:	Assignments (tutorial exercises, model construction and testing, site reports, workshop exercises and class presentations) 3000 words 60% (due during semester) and a 2-hour examination 40% (in the end of semester examination period).
Prescribed Texts:	Interactive software by Shahin Vassigh, Interactive Structures - Visualising Structural Behavior, Wiley, (CD-ROM), 2006.
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # Bachelor of Arts # Bachelor of Commerce # Bachelor of Music You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	At the completion of this subject students should have the following skills: • Be able to apply knowledge of basic science and engineering fundamentals; • Be able to undertake problem identification, formulation and solution; • Learn from experiment through reflection and analysis;

	• Communicate effectively with their peers and the community at large; • Developed a capacity for independent critical thought, rational inquiry and self-directed learning.
Links to further information:	www.benvs.unimelb.edu.au
Related Course(s):	Bachelor of Engineering (Civil) and Bachelor of Arts Bachelor of Engineering (Civil) and Bachelor of Commerce Bachelor of Engineering (Civil) and Bachelor of Laws Bachelor of Engineering (Civil) and Bachelor of Science Bachelor of Engineering (Environmental) and Bachelor of Arts Bachelor of Engineering (Environmental) and Bachelor of Commerce Bachelor of Engineering (Environmental) and Bachelor of Laws