746BU Master of Engineering Structures

Year and Campus:	2011 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	100 credit points taken over 12 months full time. This course is available as full or part time.
Coordinator:	Associate Professor Nelson Lam
Contact:	Melbourne School of Engineering **eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)** **http://www.eng.unimelb.edu.au (http://www.eng.unimelb.edu.au)**
Course Overview:	The Graduate Program in Engineering Structures is designed to meet the needs of graduates involved in disciplines associated with the advanced design of engineering structures. The Program includes contemporary issues such as ecologically sustainable buildings and the design of structures for extreme loading, such as earthquake, wind, blast and fire. Participants are also able to choose from a wide range of elective subjects including subjects focusing on project management and architecture. The major themes of this course are: structural systems, conceptual design, sustainable design, extreme loading and advanced analysis techniques. A two-semester program on a full-time basis comprised of 100 points
Objectives:	The Master of Engineering Structures aims to produce graduates who are both skilled in structural engineering principles and have the ability to apply them to complex, open-ended engineering tasks and problems
Course Structure & Available Subjects:	Students must complete 100 points. This consists of a minimum of 5 subjects which are selected from the Structural Engineering selectives and up to 3 subjects are selected from the Civil and Environmental Engineering electives
Subject Options:	**Structural Engineering Selectives** Select a minimum of 5 subjects from the following list. Total of 62.5 points Remaining subjects may be treated as Civil and Environmental Engineering electives

Subject	Study Period Commencement:	Credit Points:
CVEN90017 Earthquake Resistant Design of Buildings	Not offered 2011	12.50
CVEN90024 High Rise Structures	Not offered 2011	12.50
CVEN90026 Extreme Loading of Structures	Not offered 2011	12.50
CVEN90016 Concrete Design and Technology	Not offered 2011	12.50
CVEN90018 Structural Dynamics and Modelling	Not offered 2011	12.50
CVEN90035 Design in Steel & Other Materials	Not offered 2011	12.50

Civil and Environmental Engineering Electives

Select up to 3 subjects from the following list. Total of 37.5 points

Research subjects are subject to approval

Subject	Study Period Commencement:	Credit Points:
CVEN90043 Sustainable Infrastructure Systems	Not offered 2011	12.50
ENEN90031 Quantitative Environmental Modelling	Not offered 2011	12.50

	ENEN90033 Solar Energy	Not offered 2011	12.50
	ENEN90027 Energy for Sustainable Development	Not offered 2011	12.50
	ENGM90007 Project Management Practices	Not offered 2011	12.50
	CVEN90050 Geotechnical Engineering	Not offered 2011	12.50
	CVEN90020 Research Topic	Semester 1, Semester 2	12.50
	CVEN90045 Engineering Project Implementation	Not offered 2011	12.50
	CVEN90027 Geotechnical Applications	Not offered 2011	12.50
	ENEN90011 Energy Efficiency Technology	Not offered 2011	12.50
	ENEN90014 Sustainable Buildings	Not offered 2011	12.50
	ENGM90006 Engineering Contracts and Procurement	Not offered 2011	12.50

Entry Requirements:

The Selection Committee will evaluate the applicant's ability to pursue successfully the course using the following criteria:

- a 4 year degree in structural engineering with at least H3 (65%) average, or equivalent
- a 4 year degree in civil engineering with at least H3 (65%) average, or equivalent, and one years work experience, or 30% of the final year of the degree dedicated to structural engineering subjects
- a 3 year undergraduate degree in structural engineering with at least H3 (65%) average, or equivalent, and at least two years of documented professional work experience since graduation related to the degree
- a 3 year undergraduate degree in civil engineering with at least H3 (65%) average, or equivalent, and at least three years of documented professional work experience since graduation related to the degree

The Selection Committee may conduct interviews and tests and may call for referee reports and employer references to elucidate any of the matters referred to above

Language Requirements

All applicants must meet the English language requirements of the University to be eligible to be offered a place.
Please check the **University English language requirements (http://www.futurestudents.unimelb.edu.au/int/grad/english-req)**

* The Melbourne School of Engineering's English Language alternative may affect the duration and cost of your course

Core Participation Requirements:

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 these subjects 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: http://www.services.unimelb.edu.au/disability/

Graduate Attributes:

The Melbourne School of Engineering has mapped the University of Melbourne graduate attributes with Engineers Australia graduate attributes and Melbourne School of Engineering graduate attributes