746ST Master of Engineering Structures

Year and Campus:	2013 - Parkville
CRICOS Code:	053355A
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 ntkl@unimelb.edu.au
Contact:	Melbourne School of Engineering Ground Floor, Old Engineering (Building 173) Current students: Email: **13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)** Phone: 13MELB (13 6352) +61 3 9035 5511 Prospective students: Email: **eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)** Phone: +61 3 8344 6944 Visit **Master of Engineering Structures (http://www.eng.unimelb.edu.au/Postgrad/grad_mestructures.html?utm_source=menu)**
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.
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 Infrastructure Engineering electives
Subject Options:	**Structural Engineering Selectives** Select a minimum of 5 subjects from the following list. Total of 62.5 points The remaining subjects may be treated as Infrastructure Engineering Electives

Subject	Study Period Commencement:	Credit Points:
CVEN90017 Earthquake Resistant Design of Buildings	Not offered 2013	12.50
CVEN90024 High Rise Structures	Not offered 2013	12.50
CVEN90026 Extreme Loading of Structures	Not offered 2013	12.50
CVEN90016 Concrete Design and Technology	Not offered 2013	12.50
CVEN90018 Structural Dynamics and Modelling	Semester 2	12.50
CVEN90035 Structural Theory and Design 3	Not offered 2013	12.50

Infrastructure 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 Engineering	Not offered 2013	12.50
ENEN90031 Quantitative Environmental Modelling	Not offered 2013	12.50
ENEN90033 Solar Energy	Not offered 2013	12.50
ENEN90027 Energy for Sustainable Development	Not offered 2013	12.50
ENGM90007 Project Management Practices	Not offered 2013	12.50
CVEN90045 Engineering Project Implementation	Not offered 2013	12.50
CVEN90027 Geotechnical Applications	Not offered 2013	12.50
ENEN90011 Energy Efficiency Technology	Not offered 2013	12.50
ENEN90014 Sustainable Buildings	Not offered 2013	12.50
ENGM90006 Engineering Contracts and Procurement	Not offered 2013	12.50
CVEN90056 IE Research Project 3	Semester 2	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 degree related professional work experience post graduation
A 3 year undergraduate degree in civil engineering with at least H3 (65%) average or equivalent and at least three years of documented degree related professional work experience post graduation

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

Please check the **University English language requirements (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements)**

The **Melbourne School of Engineering's English Language alternative (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts)** may affect the duration and cost of your course

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

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