746-ST Master of Engineering Structures

Year and Campus:	2009				
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees				
Level:	Graduate/Postgraduate				
Duration & Credit Points:					
Coordinator:	Assoc.Professor Nelson Lam Dept. of Civil and Environmental Engineering Tel: +61 3 83447554Email: ntkl@unimelb.edu.au				
Contact:	Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA				
	Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email <u>http://eng-unimelb.custhelp.com</u> (http://eng-unimelb.custhelp.com/)				
Course Overview:	The Graduate Program in Engineering Structures is designed to meet the needs of graduate 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. Participar are also able to choose from a wide range of elective subjects including subjects focusing or project management and architecture. The major themes of this course are: structural system conceptual design, sustainable design, extreme loading and advanced analysis techniques. A three-semester program on a full-time basis comprised of 150 points, consisting of the subjects required for the Master of Engineering Structures with the addition of two research subjects and a corresponding reduction in the number of points allocated to elective subjects				
	subjects required for the Master of Engineering Structures w	vith the addition of two re	esearch		
Objectives:	subjects required for the Master of Engineering Structures w	vith the addition of two re	esearch		
Objectives: Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of po	vith the addition of two re	esearch		
Course Structure &	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of po	vith the addition of two re	esearch		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of po -	vith the addition of two re	esearch		
Course Structure & Available Subjects:	 subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of point - Core subjects: 25 points 	vith the addition of two re ints allocated to elective	esearch subjects. Credit		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of point - - Core subjects: 25 points Subject	vith the addition of two re ints allocated to elective	esearch subjects. Credit Points:		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of pol - - - Core subjects: 25 points Subject 421-670 Sustainable Buildings	Vith the addition of two reints allocated to elective Study Period Commencement: Semester 2	credit Points: 12.500		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of points - - Core subjects: 25 points Subject 421-670 Sustainable Buildings 421-694 Advanced Design of High Rise Structures	Study Period Commencement: Semester 2 Semester 1	Credit Points: 12.500 Credit Credit		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of points - - Core subjects: 25 points Subject 421-670 Sustainable Buildings 421-694 Advanced Design of High Rise Structures Subject	Study Period Commencement: Semester 2 Semester 1 Study Period Commencement:	Credit Points: 12.500 Credit Points:		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of pole - - - Core subjects: 25 points Subject 421-670 Sustainable Buildings 421-694 Advanced Design of High Rise Structures Subject 421-612 Earthquake Resistant Design of Buildings	Study Period Commencement: Semester 2 Semester 1 Study Period Commencement:	Credit Points: 12.500 Credit Points: 12.500		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of pole - - - Core subjects: 25 points Subject 421-670 Sustainable Buildings 421-694 Advanced Design of High Rise Structures Subject 421-612 Earthquake Resistant Design of Buildings 421-613 Advanced Concrete Design and Technology	Study Period Commencement: Semester 2 Semester 1 Study Period Commencement: Semester 1 Semester 1 Semester 2	Credit Points: 12.500 12.500 12.500 12.500		
Course Structure & Available Subjects:	subjects required for the Master of Engineering Structures w subjects and a corresponding reduction in the number of pole - - - Core subjects: 25 points Subject 421-670 Sustainable Buildings 421-694 Advanced Design of High Rise Structures Subject 421-612 Earthquake Resistant Design of Buildings 421-613 Advanced Concrete Design and Technology 421-614 Structural Dynamics and Modelling	Study Period Commencement: Semester 2 Semester 1 Study Period Commencement: Semester 1 Semester 2 Semester 2	Esearch subjects. Credit Points: 12.500 12.500 Credit Points: 12.500 12.500 12.500		

Subject	Study Period Commencement:	Credit Points:
175-501 Presenting Academic Discourse	Semester 1, Semester 2	12.500
421-505 Engineering Hydraulics	Semester 1	12.500
421-516 Hydraulics and Hydrology	Semester 2	12.500
421-519 Design of Environmental Systems	Semester 2	12.500
421-522 Environmental Engineering Design	Semester 2	12.500
421-523 Occupational Health and Safety Basics	Semester 1, Semester 2	12.500
421-525 Field Data Acquisition and Analysis	Semester 1	12.500
421-539 Geotechnical Applications	Semester 2	12.500
421-580 Hydrological Processes 1	Semester 1	12.500
421-581 Hydrological Processes 2	Semester 1	12.500
421-602 Air Quality Control	Semester 1	12.500
421-604 Environmental Management ISO 14000	Semester 2	12.500
421-605 Managing Water Borne Risks	Semester 2	12.500
421-606 Solid Wastes to Sustainable Resources	Semester 1	12.500
421-609 Technology in Society	Not offered 2009	12.500
421-616 Technology Assessment	Semester 1	12.500
421-626 Design of Energy Systems	Semester 2	12.500
421-627 Sustainable Water Resources Management	Semester 2	12.500
421-629 Energy Efficiency Technology	Semester 2	12.500
421-640 Water Supply and Waste Water Management	Semester 1	12.500
421-642 Research Topic	Semester 1, Semester 2	12.500
421-643 Research Investigation	Semester 1, Semester 2	25.000
421-644 Research Project	Semester 1, Semester 2	50.000
421-663 Engineering Project Management	Semester 1	12.500
421-664 Project Delivery	Semester 2	12.500
421-666 Management of Project Resources	Semester 2	12.500
421-667 Project Management Practices	Semester 2	12.500
421-668 Sustainable Irrigation System Management	Not offered 2009	12.500
421-671 Financial Analysis of Complex Projects	Semester 1	12.500
421-672 Management of Technological Enterprises	Semester 1	12.500
421-673 Sustainable Supply Chain Management	Semester 2	12.500
421-680 Engineering for Sustainable Environments	Summer	12.500

			· · · · · · · · · · · · · · · · · · ·		
	421-681 Management for the Environment	Semester 2	12.500		
	421-682 Engineering Systems Management	Semester 2	12.500		
	421-692 Biological Systems Engineering	Not offered 2009	12.500		
	421-693 Anatomy & Physiology for Engineers	Semester 2	12.500		
	421-697 Heating, Ventilation and Airconditioning	Semester 1	12.500		
	421-699 Forces, Fields and Flows in Bio Systems	Semester 1	12.500		
	421-632 Design in Steel & Other Materials	Semester 2	12.500		
Entry Requirements:	The academic requirements for admission to the Masters program are: 4 year degree in engineering or science in a relevant discipline with an average grade of at least 65% or via pathway (average grade equivalent to at least 65% at the University of Melbourne)				
	Language Requirements				
	International students and students whose prior qualifications are from a university where English is not the official language of instruction and examination need to supply proof of academic English language competency.				
	Proof acceptable to the University includes:	versity includes:			
	Original evidence of an English Language test score at a sitting within the last 24 months of either -				
	TOEFL - at least 577 and a TWE of at least 4.5 (paper based) or a TOEFL of at least 233 with an Essay Rating of at least 4.5 (computer based) or IELTS - at least 6.5. (A minimum band score of 6 is required in the Academic Writing module).				
	Entry under a slightly lower Engineering alternative* English Language entry requirement available as follows:				
		- at least 550, with a TWE of 4 or the computer based TOEFL of at least 213 with an Rating Score of at least 4 and agreeing in writing to undertake and pass an ESL subject irst semester of study at the University of Melbourne			
	IELTS - at least 6 and agreeing in writing to undertake and pass an ESL subject in the first semester of study at the University of Melbourne.				
	* The Faculty of Engineering's English Language alternative your course.	may affect the duration	and cost of		
Core Participation Requirements:	-				
Graduate Attributes:	-				
Generic Skills:	-				