Master of Engineering (Civil)

Year and Campus:	2010
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Overview:	Civil engineers design and create many different kinds of infrastructure to support our society. This specialisation offers considerable scope, with students gaining knowledge ofand it is the objective of this course that graduates have acquired a sound fundamental understanding of the scientific principles underlying a number of sub-disciplines including sustainability, environmental processes, structural engineering, geo-technical and hydraulic engineering, transport, and project management. Great emphasis is also placed on the development of generic skills with management, communication, problem-solving and design and innovation in civil engineering. Interaction with industry professionals is available through guest lectures, field and project work. Career opportunities abound in government, construction, property, infrastructure, consulting, mining, land, water, and waste.
Objectives:	To produce graduates who have acquired the educational and professional standards of Engineers Australia with which the course is accredited, and are both skilled in civil engineering principles and have the ability to apply them to complex, open-ended engineering tasks and problems.
Structure & Available Subjects:	The Master of Engineering (Civil) consists of 300 points of study, typically across six semesters. This includes: # 100 points of foundation study tailored to individual students who enter from non-Engineering backgrounds; and # 200 points of mainly engineering discipline specific study at the level of depth required to practice as a professional engineer upon graduation, including a 25-point capstone project completed in the final year of study From 2011, students entering with appropriate engineering background may be granted up to 150 point of credit. For example, students entering from the University of Melbourne new generation Bachelor of Science with an 'Engineering Systems' major will be granted 100 points of credit for the foundation year. Credit will also be granted to students who have completed a specified breadth sequence in the new generation Bachelor of Commerce or appropriate electives as part of any major in the new generation Bachelor of Science. Students entering from another institution may also be awarded credit in this way. As the Master of Engineering commences in 2010 only the first year of the structure and available subjects are shown. For further information about structures and subjects see: **http://www.eng.unimelb.edu.au/Postgrad/MEng/me_civil.html (http://www.eng.unimelb.edu.au/Postgrad/MEng/me_civil.html)**
Subject Options:	Core and elective requirements in the Master of Engineering (Civil) Students must complete 100 credit points (eight subjects) of core subjects in the first year of the Master of Engineering (Civil). **First year core subjects in the Master of Engineering (Civil) for students commencing March (Semester 1) 2010** Students who commence the Master of Engineering (Civil) in March (Semester 1) 2010, must select the following core subjects in the first year of the Master of Engineering (Civil)

Subject	Study Period Commencement:	Credit Points:

ENGR90021 Engineering Communication	Semester 1, Semester 2	12.50
ENGR20004 Engineering Mechanics	January, Semester 1, Semester 2	12.50
MAST20029 Engineering Mathematics	Summer Term, Semester 1, Semester 2	12.50
ENGR30001 Fluid Mechanics	Semester 1, Semester 2	12.50
ENEN20002 Earth Processes for Engineering	Semester 2	12.50
ENGR20003 Engineering Materials	Semester 2	12.50
CVEN30010 Systems Modelling and Design	Semester 2	12.50
CVEN30009 Structural Theory and Design	Semester 2	12.50

First year core subjects in the Master of Engineering (Civil) for students commencing July (Semester 2) 2010

Students who commence the Master of Engineering (Civil) in July (Semester 2) 2010, must select the following core subjects in the first year of the Master of Engineering (Civil)

Subject	Study Period Commencement:	Credit Points:
ENGR90021 Engineering Communication	Semester 1, Semester 2	12.50
ENGR20004 Engineering Mechanics	January, Semester 1, Semester 2	12.50
ENEN20002 Earth Processes for Engineering	Semester 2	12.50
MAST20029 Engineering Mathematics	Summer Term, Semester 1, Semester 2	12.50

Links to further information:	http://www.eng.unimelb.edu.au/Postgrad/MEng/me_civil.html
Related Course(s):	Master of Engineering