Master of Engineering (Environmental)

Year and Campus:	2010
Coordinator:	Associate Professor Michael Stewardson and Associate Professor Jeff Walker
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Overview:	Environmental engineers create sustainable solutions to environmental challenges. Students in this specialisation learn from staff active in research areas specialisations such as hydrology, irrigation and water management. The course has a strong focus on sustainability and project management. Guest lectures and seminars by industry professionals are available to students, along with community project work and site visits that combine theory with practice. Career opportunities exist in consulting firms, conservation and natural resource management agencies, environmental protection agencies, catchment management authorities, local, state and federal government and mining companies.
Objectives:	To produce graduates who are both skilled in environmental engineering principles and have the ability to apply them to complex, open-ended engineering tasks and problems.
Structure & Available Subjects:	The Master of Engineering (Environmental) consists of: # *A Preliminary year:* is a foundation year which may be tailored to individual students. Required only for students entering from non-Engineering backgrounds. Graduates from corresponding University of Melbourne New Generation degree pathways enter at second year. # *Second year:* generally the entry point for graduates of New Generation degrees (Bachelor of Commerce, Bachelor of Environments or Bachelor of Science) and graduates with up to 100 points of credit (see entry requirements) if continuing within a discipline in the Master of Engineering. Consists of Engineering subjects at a significant level of depth in the chosen discipline. # *Final year:* generally the entry point for Bachelor of Engineering graduates with up to 150 points of credit (see entrance requirements) wishing to change their specialisation. Consists of Engineering subjects at a significant level of depth to ensure that students are eligble to practice as engineers upon graduation. Research and Integrated Design projects feature as a significant part of the final year. 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_environmental.html (http://www.eng.unimelb.edu.au/Postgrad/MEng/me_biomedical.html)**
Subject Options:	Core and elective requirements in the Master of Engineering (Environmental) Students must complete 100 credit points (eight subjects) of core subjects in the first year of the Master of Engineering (Environmental). **First year core subjects in the Master of Engineering (Environmental) for students commencing March (Semester 1) 2010** Students who commence the Master of Engineering (Environmental) in March (Semester 1) 2010, must select the following core subjects in the first year of the Master of Engineering (Environmental)

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
CVEN30008 Risk Analysis	Semester 1	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
MAST20029 Engineering Mathematics	Summer Term, Semester 1, Semester 2	12.50
CVEN30010 Systems Modelling and Design	Semester 2	12.50

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

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

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_environmental.html
Related Course(s):	Master of Engineering