355AR Bachelor of Engineering (Environmental Engineering)

Year and Campus:	2010 - Parkville		
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees		
Level:	Undergraduate		
Duration & Credit Points:	400 credit points taken over 48 months full time. This course is available as full or part time.		
Coordinator:	Dr Graham Moore		
Contact:	Melbourne School of Engineering Building 173, Grattan Street The University of Melbourne VIC 3010 Melbourne General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimilies + 61 3 9349 2182 + 61 3 8344 7707 Email eng-info@unimelb.edu.au (eng-info@unimelb.edu.au)		
Course Overview:	The Environmental Engineering degree course is underpinned by a 40-year tradition of tead and research in land and water management and environmental issues. The objective of the course in environmental engineering is to graduate professional engineers with leadership qualities in engineering aspects of land and water management at environmental assessment, and skills in surface and groundwater hydrology, hydrogeology, irrigation engineering and water supply, land reclamation and sediment, nutrient and solute transport. Such engineers should be able to converse scientifically with biologists, ecologist and resource managers, have analytical, synthesis and numerical skills, and have experient in computing, field and laboratory techniques relating to natural resources. With these skills graduates will be able to play a leading role in developing engineering solutions to a wide resof problems and opportunities within an ecologically sustainable context. The first year of the environmental engineering stream is flexible, but contains a solid groun in mathematics, chemistry and basic engineering science. Engineering projects are introduct as a vehicle to discover the diverse nature of engineering inputs and the relationship of engineering to the natural environment and a sustainable world. A feature of first year is a field trip to assist the cohort of students to develop social links as well as discover a range of environmental engineering issues. Second year develops themes from first year to introduce basic engineering science and design. Links between environmental engineering and the natural sciences are developed in the areas of biology, earth sciences and chemistry. Management principles applicable to the natural environment are also introduced. In third ye the course has an emphasis on hydraulics, hydrology and design. A practical course, includ a one-week field trip covering techniques for gathering the data required for design, appears this level. Analysis of spatial systems is introduced, while managemen		
Objectives:	-		
Course Structure & Available Subjects:	The course structure below represents the core content for the BE degree. All students should check that they have taken the listed subjects, or equivalent. Students should regularly check the Melbourne School of Engineering website for additional information and up-to-date course advice: http://www.eng.unimelb.edu.au/		
	When setting the timetable every effort will be made to avoid clashes between the times of classes associated with these sets of subjects. Students should be aware however, that if it proves to be impossible to achieve a timetable without clashes in these sets of subjects, the Faculty reserves the right to modify course structures in order to eliminate the conflicts. Students will be advised during the enrolment period of the semester if the recommended courses need to be varied. Where the courses include elective subjects these		

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in co	should be chosen so that departmental guidelines on electives are satisfied (see http://www.civenv.unimelb.edu.au/undergraduate). Moreover, electives should be chosen so as to develop a specialisation, while ensuring a logical progression of year level and prerequisites. Students should also avoid timetable clashes in choosing their electives. In particular, students in combined degrees should plan their courses so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.			
WH Note faile	THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLILNG STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008 Note: Students who commenced 2nd year in 2008 who have not completed, (or who have failed), the second year subjects required in the Bachelor of Engineering degree please see a course adviser.			
Fou	ırth Year			
Sub	Subjects listed below MUST be taken in this approved order, regardless of semester availability.			
Ser	Semester 1			
Sub	bject	Study Period Commencement:	Credit Points:	
EN	IGM40001 Management for Engineers 3	Semester 1	12.50	
cv	/EN90012 Hydrological Processes 1	Semester 1	12.50	
CV	/EN90014 Hydrological Processes 2	Semester 1	12.50	
to ta	Elective (12.5 points) - check the handbook for a list of Engineering subjects. Students requiring to take subjects in addition should seek specific advice from the Engineering Student Centre (see contact details above) Semester 2			
Sub	bject	Study Period Commencement:	Credit Points:	
cv	/EN40017 Analysis & Design-Environmental Systems	Semester 2	12.50	
cv	/EN40009 Integrated Design	Semester 2	12.50	
cv	/EN90020 Research Topic	Semester 1, Semester 2	12.50	
to ta	Elective (12.5 points) - check the handbook for a list of Engineering subjects. Students requiring to take subjects in addition should seek specific advice from the Engineering Student Centre (see contact details above)			
Entry Requirements: The	ere is no further entry into this combined course.			
Requirements: Star Poli Sub is do the	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject 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/			
a M	On completion of a Bachelor of Engineering, students may choose to apply for candidature in a Masters by research or PhD degree. They may also apply to undertake a one year Advanced Masters coursework degree.			
reco Eng	The Bachelor of Engineering is a professional degree. Graduates can obtain professional recognition by joining Engineers Australia who has accredited these programs. The Bachelor of Engineering also delivers on the University graduate attribute http://www.unimelb.edu.au/about/attributes.html			
Generic Skills: -				

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