**Civil Systems** 

Year and Campus:	2010	
Coordinator:	Dr Graham MooreDepartment of Civil and Environmental Engineering	
Contact:	grahamam@unimelb.edu.au	
Overview:	Students who have undertaken the Civil Systems major will be able to rigorously integrate fundamental science to provide accurate information and optimum solutions to practical problems involving civil infrastructure. More specifically, core skills and knowledge that will be developed include: fundamental scientific comprehension that will lead to accurate computer modelling of civil systems, analytical and abstract thinking, problem-solving and design skills, ability to carry out laboratory experiments to eliminate or confirm possible solutions to complex problems. In all levels of this major, we will ensure the development of excellent communication skills that will enable our graduates to deliver complex scientific information in a clear and concise fashion.  The Civil Systems major will provide various pathways for students. These include accredited professional or scientific research careers in civil engineering through further study in the Masters in Engineering (ME) or PhD programs. Professional masters courses in other disciplines such as education, law, or business will be available. Students may also choose to enter the workforce at the completion of their undergraduate degree with employers who value the range of scientific, technical and problem solving skills graduates will have developed.	
Objectives:		
Structure & Available Subjects:	Completion of 50 points of study at third year level	
Subject Options:	All four of:	
	Subject Study Period Commencement	nt: Credit Points:
	ENGR30001 Fluid Mechanics Semester 1, Semester 2	12.50
	CVEN30008 Risk Analysis Semester 1	12.50
	CVEN30010 Systems Modelling and Design Semester 2	12.50
	CVEN30009 Structural Theory and Design Semester 2	12.50
Notes:	In addition to these four core subjects, the third year level subject, Differential Equations in Engineering, will also be required in this major for students who have taken Vector Calculus instead of Engineering Mathematics at second year level.	
	microad of Engineering Mathematics at Second year level.	

Page 1 of 1 02/02/2017 1:29 P.M.