

355AV Bachelor of Engineering (Civil 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:	Professor Priyan Mendis								
Contact:	<p>Melbourne School of Engineering Building 173, Grattan Street The University of Melbourne Victoria 3010 AUSTRALIA General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimile + 61 3 9349 2182 + 61 3 8344 7707 Email eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)</p>								
Course Overview:	<p>The course structure below represents the core content for the BE (Chemical and Biomolecular) degree. All students should check that they have taken the listed subjects, or equivalent. For further information and up-to-date course advice students should regularly check the Melbourne School of Engineering website. http://www.eng.unimelb.edu.au (/)</p>								
Objectives:	<p>The course objectives are that graduates should have acquired:</p> <ul style="list-style-type: none"> # A broad knowledge of science and engineering in several disciplines including a sound fundamental understanding of scientific and engineering principles and methods; # An in-depth knowledge and skills within specified areas of engineering and science; # The appropriate analytical, problem-solving and design skills; # Capacity to apply practical skills towards the development of mathematical and computer-based solutions of problems; # Learning skills and a knowledge base to enable them to readily accommodate future changes in technology; # Verbal and written communication skills that enable them to communicate effectively in the context of defining and solving problems; # An understanding of the basic principles underlying the management of physical, human and financial resources; # Skills, personal attributes and depth of knowledge which equip them for positions of leadership in basic and applied research, engineering and management of technology-intensive enterprises; # An appreciation of the roles and responsibilities of engineers and scientists in society; and # The educational and professional standards of the professional institutions with which the faculties' courses are accredited. 								
Course Structure & Available Subjects:	Students are required to complete 400 points of core material and electives.								
Subject Options:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008. IF A STUDENT HAS FAILED A SUBJECT, THEY MUST SEE A COURSE ADVISER FOR SUBJECT PLANNING</p> <p>Fourth Year</p> <p>Subjects listed below MUST be taken in this approved order, regardless of availability.</p> <p>Semester 1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Subject</th> <th style="width: 15%;">Study Period Commencement:</th> <th style="width: 15%;">Credit Points:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:			
Subject	Study Period Commencement:	Credit Points:							

	CVEN40008 Infrastructure Design	Semester 1	12.50
	ENGM40001 Management for Engineers 3	Semester 1	12.50
	Elective(s) (25 points in total) - <i>or electives approved by the Department of Civil and Environmental Engineering.</i>		
	Semester 2		
	Subject	Study Period Commencement:	Credit Points:
	CVEN40007 Steel & Concrete Design	Semester 2	12.50
	CVEN40009 Integrated Design	Semester 2	12.50
	Elective(s) (25 points in total) - <i>or electives approved by the Department of Civil and Environmental Engineering.</i>		
Entry Requirements:	-		
Core Participation Requirements:	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 Univeristy is dedicated to provide support to those whith 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		
Further Study:	On completion of a Bachlor 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 by Coursework degree.		
Graduate Attributes:	The Bachelor of Engineering is a professional degree. Graduate can obtain professional recognition by joining Engineers Australia who has accredit these programs. The Bachlor of Engineering also delivers on the University graduate attribute - http://www.unimelb.edu.au/about/attributes.html		
Professional Accreditation:	The Bachelor of Engineering is accredited with Engineers Australia		
Generic Skills:	<p>Upon completion of this course the student should have developed their:</p> <ul style="list-style-type: none"> # Ability to apply knowledge of basic science and engineering fundamentals; # Ability to communicate effectively, not only with engineers but also with the community at large; # In-depth technical competence in at least one engineering discipline; # Ability to undertake problem identification, formulation and solution; # Ability to utilise a systems approach to design and operational performance; # Ability to function effectively as an individual and in multi-disciplinary and multicultural teams, with the capacity to be a leader or manager as well as an effective team member; # Understanding of the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development; # Understanding of the principles of sustainable design and development; # Understanding of and commitment to professional and ethical responsibilities; and # Expectation and capacity to undertake life-long learning. 		