

355AV Bachelor of Engineering (Civil Engineering)

Year and Campus:	2012
CRICOS Code:	003626G
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
Coordinator:	Professor Priyan Mendis pamendis@unimelb.edu.au
Contact:	<p>Melbourne School of Engineering Ground Floor, Old Engineering (Building 173) Current students: Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au) Phone: 13MELB (13 6352) +61 3 9035 5511 Prospective students: Email: eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au) Phone: +61 3 8344 6944</p>
Course Overview:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>The last intake for this course was in 2007 and thus no longer has a standard course plan. Students still enrolled in this course need to seek specific personalised advice from a course adviser on the requirements necessary to complete the degree</p>
Objectives:	<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 # The educational and professional standards of the professional institutions with which the faculties' courses are accredited
Course Structure & Available Subjects:	THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008
Majors/Minors/ Specialisations	THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008
Subject Options:	<p>Final Year Subject Options</p> <p>Students who commenced fourth year (Final Year) in 2011 and have not completed (or have failed) the fourth year subjects required in the Bachelor of Engineering degree should see a course adviser</p>

The following subjects are available in 2012. Pre-requisites and non-allowed subject conditions must be satisfied, please consult with a Course Adviser

YEAR LONG

Subject	Study Period Commencement:	Credit Points:
CVEN90052 Integrated Design	Year Long	25

SEMESTER ONE

Subject	Study Period Commencement:	Credit Points:
CVEN90017 Earthquake Resistant Design of Buildings	Semester 1	12.50
CVEN90024 High Rise Structures	Semester 1	12.50
CVEN90049 Structural Theory and Design 2	Semester 1	12.50
CVEN90050 Geotechnical Engineering	Semester 1	12.50
ENEN90006 Solid Wastes to Sustainable Resources	Semester 1	12.50
ENEN90027 Energy for Sustainable Development	Semester 1	12.50
ENEN90029 Water and Waste Water Management	Semester 1	12.50
ENEN90033 Solar Energy	Semester 1	12.50
ENGM90007 Project Management Practices	Semester 1	12.50
ENGM90010 Management of Technological Enterprises	Semester 1	12.50

SEMESTER TWO

Subject	Study Period Commencement:	Credit Points:
CVEN30009 Structural Theory and Design	Semester 2	12.50
CVEN30010 Systems Modelling and Design	Semester 2	12.50
CVEN90016 Concrete Design and Technology	Semester 2	12.50
CVEN90027 Geotechnical Applications	Semester 2	12.50
CVEN90035 Structural Theory and Design 3	Semester 2	12.50
CVEN90051 Civil Hydraulics	Semester 2	12.50
ENEN90005 Environmental Management ISO 14000	Semester 2	12.50
ENEN90011 Energy Efficiency Technology	Semester 2	12.50
ENEN90028 Monitoring Environmental Impacts	Semester 2	12.50
ENGM90006 Engineering Contracts and Procurement	Semester 2	12.50
CVEN90048 Transport Systems	Semester 2	12.50

Entry Requirements:

THERE IS NO FURTHER ENTRY INTO THIS COURSE

Core Participation Requirements:

For the purposes of considering requests 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/
Further Study:	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 by Coursework degree
Graduate Attributes:	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
Professional Accreditation:	This course is accredited by Engineers Australia
Generic Skills:	<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 # Expectation and capacity to undertake life-long learning
Notes:	THERE IS NO FURTHER ENTRY INTO THIS COURSE