

365AV Bachelor of Engineering (Civil) and Bachelor of Laws

Year and Campus:	2010 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	600 credit points taken over 72 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</p> <p>General telephone Enquiries + 61 3 8344 6703 + 61 3 8344 6705</p> <p>Facsimilies +61 3 9349 2182 +61 3 8344 7707</p> <p>Email eng-info@unimelb.edu.au</p>
Course Overview:	THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008.
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:	<p>Students studying the BE/LLB degree should consult the BE single degree course structure for a current list of core engineering subjects.</p> <p>The combined degree of Bachelor of Engineering (Civil)/Bachelor of Laws requires a total of 600 points over six years. Students are required to complete 300 points of Engineering subjects and 300 points of Law subjects.</p> <p>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 should be chosen so that departmental guidelines on electives are satisfied (see www.civenv.unimelb.edu.au/undergraduate). Students should also avoid timetable clashes in choosing their electives. In</p>

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.

Subject Options:

THERE WILL BE NO FIRST, SECOND OR THIRD YEAR ENTRY INTO THIS COURSE FROM 2008

THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008. IF A STUDENT HAS FAILED A SUBJECT THE MUST SEE A COURSE ADVISER FOR SUBJECT PLANNING

Fourth Year

Subjects listed below **MUST** be taken in this approved order, regardless of semester availability.

4th Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
CVEN90043 Sustainable Infrastructure Systems	Semester 1	12.50
ENGR30001 Fluid Mechanics	Semester 1, Semester 2	12.50
CVEN90044 Engineering Site Characterisation	Semester 1	12.50
CVEN30008 Risk Analysis	Semester 1	12.50

4th Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
CVEN90045 Engineering Project Implementation	Semester 2	12.50
CVEN30010 Systems Modelling and Design	Semester 2	12.50
CVEN30009 Structural Theory and Design	Semester 2	12.50

plus Law subject as required (12.5 points)

Fifth Year

Subjects listed below **MUST** be taken in this approved order, regardless of semester availability.

5th Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
CVEN40008 Infrastructure Design	Semester 1	12.50
ENGM40001 Management for Engineers 3	Semester 1	12.50

plus Law subjects as required (25 points)

5th Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
CVEN40007 Steel & Concrete Design	Semester 2	12.50
CVEN40009 Integrated Design	Semester 2	12.50

plus Law subjects as required (25 points)

Sixth Year

Law subjects as approved to meet the requirements of LLB (100 points)

Note: A total of 300 points are to be completed in the LLB component of the BE/LLB

Entry Requirements:

There is no further entry for this combined degree.

Core Participation Requirements:	For the purposes of considering a request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this course 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:	<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.