

955AV Bachelor of Engineering (Civil) and Bachelor of Commerce

Year and Campus:	2010 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	500 credit points taken over 60 months full time. This course is available as full or part time.
Coordinator:	Professor Priyan Mendis
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Course Overview:	<p>Students studying the BE/BCom degree should consult the BE single degree course structure for a current list of core engineering subjects. For further information and up-to-date course advice students should regularly check the Department of Civil and Environmental Engineering's course advice page on the Engineering Faculty website.</p> <p>The combined degree of Bachelor of Engineering (Civil)/Bachelor of Commerce requires a total of 500 points over five years. Students are required to complete 300 points of Engineering subjects and 200 points of Commerce subjects.</p> <p>The total of 200 commerce points must include the five compulsory subjects 316-101 Introductory Macroeconomics, 316-102 Introductory Microeconomics, 316-130 Quantitative Methods 1, 325-201 Organisational Behaviour (students who commenced Bachelor of Commerce double degree in 2005 are not required to complete this subject) and at least one of 316-206 Quantitative Methods 2 or 316-205 Introductory Econometrics or 325-210 Managerial Decision Analysis or 325-212 Market Research; at least 50 points at 100-level; and at least 50 points at 300-level (these must be completed at The University of Melbourne).</p> <p>Note: 421-355 Management for Engineers 2 - exempt for students who complete 732-103 Principles of Business Law and 306-107 Accounting Reports and Analysis as part of the BCom. In order to complete the degree in 500 points, this exemption should be used.</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 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.</p>
Objectives:	<p>The course objectives are that graduates should have acquired:</p> <ul style="list-style-type: none"> # the educational and professional standards of the professional institutions and boards with which the Faculty of Engineering's courses are accredited; # a sense of professional ethics and responsibility towards their chosen professions and the community; # the ability to think critically, analytically and creatively when seeking to design solutions to professional problems whilst displaying an understanding of the dynamic economic, social, political and physical environments in which they occur;

	<ul style="list-style-type: none"> # the oral and written communication skills which are necessary to operate effectively in their chosen disciplines and of other disciplines so as to facilitate effective work-related communication; # a broad knowledge-base of their chosen disciplines and of other disciplines so as to facilitate effective work-related communication; # a sound fundamental understanding of the scientific principles underlying technology; # the mathematical and computational skills necessary for the solution of theoretical and practical problems, for further development professionally, and for meeting future changes in technology; # the ability to efficiently and effectively apply, the basic principles underlying the management of physical, human and financial resources in an engineering-based enterprise; # a basic level of knowledge and skills in several disciplines and a more specialised level of knowledge and skills in one or more of the following disciplines: accounting, actuarial studies, business information systems, econometrics, economics, finance, management and marketing; # an understanding of basic concepts and institutional arrangements operating in the Australian economy; and # skills in basic quantitative methods used in the study of the economy, commerce and government.
Course Structure & Available Subjects:	<p>The combined degree of BE with BCom requires a total of 500 points over five years.</p> <p>The BE/BCom course aims to develop skills in critical analysis and professional competence in the areas of accounting, business information systems, econometrics, economics, finance, international business, management and marketing; and provide a professional education in one of environmental, chemical, civil, electrical, computer, software, mechanical engineering. The first two years of this combined course would normally include compulsory engineering and commerce subjects. In years three, four and five the remaining compulsory engineering subjects (and possibly electives) are taken along with sufficient commerce subjects to obtain the required total of 200 commerce points.</p> <p>In order to establish a balanced study program, it is recommended that by the end of the equivalent of three full-time years, students in most streams of this course are to have:</p> <ul style="list-style-type: none"> # completed no less than 100 points of commerce; # completed no less than 200 points of engineering. <p>To satisfy course requirements students must:</p> <ul style="list-style-type: none"> # take the set of core engineering subjects prescribed for the branch of engineering being studied. This will include the professional study requirements in one of chemical engineering, civil engineering, environmental engineering, mechanical engineering, or one of electrical, computer or software engineering; <p>complete 200 points towards the commerce component comprising;</p> <ul style="list-style-type: none"> # at least 50 level-one points # at least 50 level-three points (these must be completed at the University of Melbourne) # the five compulsory subjects
Subject Options:	<p>THERE WILL BE NO FIRST, SECOND OR THIRD YEAR ENTRY INTO THIS COURSE FROM 2008</p> <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 semester availability.</p> <p>4th year: Semester 1</p>

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

Plus Commerce subject as required (12.5 points).

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 Commerce 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 Commerce subjects as required (12.5 points)

Plus Engineering elective (12.5 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 Commerce subjects as required (25 points).

Entry Requirements:	There are no further entries into this combined course
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 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 attributes. http://www.unimelb.edu.au/about/attributes
Professional Accreditation:	This course is accredited with Engineers Australia
Generic Skills:	-