

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

Year and Campus:	2009
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	
Contact:	<p>Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email http://eng-unimelb.custhelp.com (http://eng-unimelb.custhelp.com)</p>
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 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; # 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;

	<ul style="list-style-type: none"> # 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. 									
<p>Course Structure & Available Subjects:</p>	<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 									
<p>Subject Options:</p>	<p>THERE WILL BE NO FIRST 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</p> <p>Note: Students who commenced 2nd year in 2008 who have not completed, (or who have failed), the second year subjects required in the Bachelor of Engineering degree please see a course adviser.</p> <p>Third Year</p> <p>Subjects listed below MUST be taken in this approved order, regardless of semester availability.</p> <p>3rd year: Semester 1</p> <table border="1" data-bbox="387 1883 1485 2085"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>421-255 Management for Engineers 1</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>436-291 Engineering Mechanics</td> <td>Semester 1, Semester 2</td> <td>12.500</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	421-255 Management for Engineers 1	Semester 1	12.500	436-291 Engineering Mechanics	Semester 1, Semester 2	12.500
Subject	Study Period Commencement:	Credit Points:								
421-255 Management for Engineers 1	Semester 1	12.500								
436-291 Engineering Mechanics	Semester 1, Semester 2	12.500								

Plus Commerce subjects as required (25 points).

3rd year: Semester 2

Subject	Study Period Commencement:	Credit Points:
880-104 Designing Environments	Semester 1, Semester 2	12.500
421-289 Earth Processes for Engineering	Semester 2	12.500

Plus Commerce subjects as required (25 points).

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:
421-306 Geotechnical Engineering	Semester 1	12.500
421-307 Structural Engineering 1	Semester 1	12.500
421-505 Engineering Hydraulics	Semester 1	12.500

Plus Commerce subject as required (12.5 points).

4th year: Semester 2

Subject	Study Period Commencement:	Credit Points:
421-317 Structural Engineering 2	Semester 2	12.500
421-318 Construction Engineering	Semester 2	12.500
421-516 Hydraulics and Hydrology	Semester 2	12.500

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:
421-441 Infrastructure Design	Semester 1	12.500
421-405 Management for Engineers 3	Semester 1	12.500

Plus Commerce subjects as required (12.5 points)

Plus Engineering elective (12.5 points)

5th year: Semester 2

Subject	Study Period Commencement:	Credit Points:
421-440 Steel & Concrete Design	Semester 2	12.500
421-442 Integrated Design	Semester 2	12.500

Plus Commerce subjects as required (25 points).

Core Participation Requirements:	-
Graduate Attributes:	-
Generic Skills:	-