957-AV Bachelor of Engineering (Civil) and Bachelor of Arts

Year and Campus:	2008
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	
Contact:	Nghiem Tran Course Advisor Melbourne School of Engineering T: + 61 3 8344 4628 F: + 61 3 9349 2182 E n.tran@unimelb.edu.au
Course Overview:	Students studying the BE/BA 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 at www.civenv.unimelb.edu.au/undergraduate The combined degree of Bachelor of Engineering (Civil)/Bachelor of Arts requires a total of 500 points over five years. Students are required to complete 300 points of Engineering subjects and 200 points of Arts subjects. 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.
Objectives:	The course objectives are that graduates should: # have a broad knowledge-base and command of the scientific principles underlying technology; # have acquired the educational and professional standards required by the Institution of Engineers Australia for registration as chartered professional engineers; # possess a broad knowledge base of their chosen engineering discipline and of other disciplines such as management, humanities and languages; # demonstrate a sound knowledge and understanding of selected fields of study in the humanities, languages and social and behavioural sciences; # have acquired 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; # understand the basic principles underlying the management of physical, human and financial resources; # have acquired well-developed generic skills such as critical thinking, intellectual curiosity, problem solving, independent thought, effective communication and the ability to work in a cooperative manner as a member of a team; and demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # communicate effectively and, in the case of students undertaking a language major, are able to read, write and speak fluently and with an appreciation of the cultural context of the language; # have an appreciation of the interpersonal and management skills required by engineers in undertaking professional activities; # have acquired a sense of professional ethics and responsibility towards the profession and the community; # apply critical and analytical skills and methods to the identification and resolution of problems within a changing social context; # act as informed and critically discriminating participants within the community of scholars, as citizens and in the workforce;

	# have an understanding of political, economic, social and cultural developments in our society and in the wider international context; and # realise that, as professional engineers, they are a part of a highly competitive global economy.
Course Structure & Available Subjects:	-
Subject Options:	**Arts requirements:** All students in the Bachelor of Arts and Bachelor of Engineering (Civil) are required to complete 200 points of Arts subjects of which: # 50 points must be taken at first year level; # 75 points must be taken at second year level and; # 75 points must be taken at third year level. In addition it is expected students should complete a major in the Arts component of their degree. All Arts subjects undertaken must be from the following arts-approved study areas (see the individual area of study entry for full details): # all language subjects # American studies # Ancient, Medieval and Early Modern Studies (some non-arts approved subjects included) # Anthropology # Art History # Asian Studies (some non-arts approved subjects included) # Australian Indigenous Studies (some non-arts approved subjects included) # Australian Studies # Cinema Studies # Classical studies and Archaeology # Communication Skills # Computuer Applications in the Social Sciences and Humanities # Creative Writing # Criminology # Cultural StudiesDevelopment Studies (some non-art approved subjects included) # English Literary Studies # English as a Second Language # English Language Studies # Environmental Studies (some non-arts approved subjects included) # European Studies # Gender Studies # Geography # Hebrew and Jewish Studies # History # History and Philosophy of ScienceInternational Studies # Islamic Studies # Linguisitics and Applied Linguistics # Philosophy # Planning and Design # Political Science # Psychology # Social Theory # Socio-legal Studies **THERE WILL BE NO FIRST YEAR ENTRY INTO THIS COURSE FROM 2008**

Second Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
431-201 Engineering Analysis A	Semester 1	12.50
880-103 Constructing Environments	Semester 1, Semester 2	12.50

Arts subjects as required (25 points).

Semester 2

Subject	Study Period Commencement:	Credit Points:
431-202 Engineering Analysis B	Summer, 1, 2	12.500
421-122 Materials 2	Semester 2	12.50

Arts subjects as required (25 points).

Third Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
421-208 Mechanics of Solids	Semester 1	12.50
421-255 Management for Engineers 1	Semester 1	12.50

Arts subjects as required (25 points).

Semester 2

Subject	Study Period Commencement:	Credit Points:
421-207 Introduction to Design	Semester 1	12.50
421-209 Geomechanics 1	Semester 2	12.50

Arts subjects as required (25 points).

Fourth Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
421-305 Engineering Hydraulics 1	1	12.500
421-306 Geotechnical Engineering	Semester 1	12.50
421-307 Structural Engineering 1	Semester 1	12.50
421-355 Management for Engineers 2	Semester 1	12.50

Semester 2

Subject	Study Period Commencement:	Credit Points:
421-316 Engineering Hydraulics & Hydrology	Semester 2	12.50

	421-317 Structural Engineering 2	Semester 2	12.50
	421-318 Construction Engineering	Semester 2	12.50

Arts subjects as required (12.5 points).

Fifth Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
421-441 Infrastructure Design	Semester 1	12.50
421-405 Management for Engineers 3	Semester 1	12.50

Arts subjects as required (25 points).

Semester 2

Subject	Study Period Commencement:	Credit Points:
421-440 Steel & Concrete Design	Semester 2	12.50
421-442 Integrated Design	Semester 2	12.50

Arts subjects as required (25 points).

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