680-AV Bachelor of Engineering (EngineeringManagement) Civil

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:	The course structure below represents the core content for the Civil Engineering specialisation within the BE (Engineering Management) degree. All students should check that they have taken the listed subjects, or equivalent. 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 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:	-
Course Structure & Available Subjects:	-
Subject Options:	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
421-208 Mechanics of Solids	Semester 1	12.50
421-255 Management for Engineers 1	Semester 1	12.50

Commerce subject (12.5 points) - *subject must be either a level-200 or level-300 and the pre-requisites met where necessary.*

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
431-202 Engineering Analysis B	Summer, 1, 2	12.500
421-122 Materials 2	Semester 2	12.50

Third Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
421-305 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

Commerce subject (12.5 points) - *subject must be either a level-200 or level-300 and the pre-requisites met where necessary.*

Fourth Year

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

Semester 1

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

Commerce Elective (12.5 points) - *subject must be either a level-200 or level-300 and the pre-requisites met where necessary.*

and

Engineering Elective (12.5 points) - *or elective approved by the Department of Civil and Environmental Engineering.*

Semester 2

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

Commerce Elective (12.5 points) - *subject must be either a level-200 or level-300 and the pre-requisites met where necessary.*

and

Engineering Elective (12.5 points) - *or elective approved by the Department of Civil and Environmental Engineering.*

Core Participation Requirements:	-
Graduate Attributes:	The undergraduate degree streams are accredited by Engineers Australia. In order to achieve this accreditation we aim to develop the following attributes in our graduates: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; andExpectation and capacity to undertake life-long learning.
Generic Skills:	-