

680EE Bachelor of Engineering (EngineeringManagement) Electrical

Year and Campus:	2010 - Parkville														
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees														
Level:	Undergraduate														
Duration & Credit Points:	400 credit points taken over 48 months full time. This course is available as full or part time.														
Coordinator:	A/Prof Jamie Evans														
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Course Overview:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>The course structure below represents the core content for the Electrical Engineering specialisation within the BE (Engineering Management) degree. All students should check that they have taken the listed subjects, or equivalent.</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.</p>														
Objectives:	Completing the Electrical Engineering Management degree will enable students to rigorously integrate the mathematics of signals, systems and information with the science of electrical phenomena, in the formulation and solution of problems in areas such as telecommunications, monitoring and automation, energy distribution, and digital computing. We aim to develop: scientific understanding of electrical phenomena as a basis for mathematical modelling and abstraction in analysis and design; problem-solving and design skills; the ability to construct simulations and laboratory experiments; and good communication skills.														
Course Structure & Available Subjects:	-														
Subject Options:	<p>THERE WILL BE NO FIRST TO THIRD YEAR ENTRY INTO THIS COURSE</p> <p>Note: Students who commenced 3rd year in 2009 who have not completed, (or who have failed), the third year subjects required in the Bachelor of Engineering degree please see a course adviser.</p> <p>Semester 1 THE Following third year Engineering Subjects are available in 2010</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ELEN30002 Stochastic Signals and Systems</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>ELEN30003 Communication Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ELEN30005 Fields and Transmission Lines</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	ELEN30002 Stochastic Signals and Systems	Semester 1	12.50	ELEN30003 Communication Systems	Semester 2	12.50	ELEN30005 Fields and Transmission Lines	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:													
ELEN30002 Stochastic Signals and Systems	Semester 1	12.50													
ELEN30003 Communication Systems	Semester 2	12.50													
ELEN30005 Fields and Transmission Lines	Semester 1	12.50													

ELEN30007 Electronic Circuit Design 2	Semester 1	12.50
ELEN30008 Signal Processing 1 (Fundamentals)	Semester 2	12.50
431-330 Design Laboratory	Not offered 2010	
431-328 Digital Systems 3: Circuits and Systems	Not offered 2010	
ELEN30011 Electrical Device Modelling	Semester 2	12.50
ELEN30013 Electronic System Implementation	Semester 2	12.50

Credit may not be obtained for :

both 431-305 Electronic System Implementation and 431-330 Design laboratory

both 431-303 Electrical Device Modelling and 431-328 Digital Systems 3

Fourth Year

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

Semester 1

Subject	Study Period Commencement:	Credit Points:
ELEN40001 Project Work	Year Long	25
ENGM40001 Management for Engineers 3	Semester 1	12.50

431-4xx level electives (**two** subjects each worth 12.5 points)

* Students must seek course advice to study 421-405.

Semester 2

431-4xx level electives (**two** subjects each worth 12.5 points)

Commerce 200-level or 300-level subject (12.5 points)

Electrical Engineering Electives

Subject	Study Period Commencement:	Credit Points:
ELEN40004 Signal Processing 2	Semester 1	12.50
ELEN40003 Digital Communications	Semester 1	12.50
ELEN40005 Communication Networks	Semester 1	12.50
ELEN40007 Control 2 (Advanced Control)	Semester 2	12.50
ELEN40008 Wireless Communication	Semester 2	12.50
ELEN40009 RF, Microwave and Optoelectronic Systems	Semester 2	12.50
ELEN40010 Digital Systems 4: High Speed Systems	Semester 2	12.50
ELEN40013 Electronic Circuit Design 3	Semester 1	12.50

Entry Requirements:

There will be no further entry into this 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 an a one year Advanced Masters 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
Generic Skills:	An Engineering graduate has a unique skill set comprising a blend of technical, business and interpersonal skills. Upon completion of the Bachelor of Engineering at the University of Melbourne, students will have strong analytical skills, the ability to lead teams and projects and the creativity to look at problems in a way that provides innovative solutions. Our graduates are known for their high standards and professionalism, their understanding of global issues and their outstanding communication skills. For details, see "Objectives".