

955EE Bachelor of Engineering (Electrical) 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.
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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 combined BE(IT)/BCom and BE/BCom course in engineering (electrical) and commerce, must satisfy the following requirements:</p> <ul style="list-style-type: none"> # All requirements of the chosen stream of the BE(IT) or BE course must be satisfied, except that the requirement for physics is waived. For the software engineering stream the requirement for 431-202 Engineering Analysis B is also waived. However, students in the computer and electrical streams are strongly encouraged to complete 640-142 Physics B as an additional elective, as a number of the 300-level and 400-level elective subjects in electrical engineering require physics as a prerequisite. Students must complete a total of 300 engineering points. # The remaining elective subjects to make up 400 points for the award of the engineering degree, including the non-technical requirements of the computer and electrical engineering streams, are credited from the commerce subjects undertaken. # A total of 200 commerce points must be completed. These 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>Typical course plans for the three engineering streams of this combined degree appear below.</p>
Objectives:	Completing the Electrical Engineering 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:	THERE WILL BE NO FRIST TO THIRD YEAR ENTRY INTO THIS COURSE.

Note: Students who commenced 3rd year in 2009 and have not completed, (or who have failed), the third year subjects required in the Bachelor of Engineering degree please see a course adviser.

Fourth year

Semester 1

Subject	Study Period Commencement:	Credit Points:
ELEN30002 Stochastic Signals and Systems	Semester 1	12.50

Electrical engineering 300-level electives 25 points
Subject from other degree as required 12.5 points

Semester 2

Subject	Study Period Commencement:	Credit Points:
ELEN30003 Communication Systems	Semester 2	12.50
ELEN30013 Electronic System Implementation	Semester 2	12.50

Electrical engineering 300-level electives 12.5 points
Subject from other degree as required 12.5 points

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

The following 300 level Engineering Electives are available in 2010

Subject	Study Period Commencement:	Credit Points:
ELEN30001 Control 1 (Classical Control)	Semester 1	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

Fifth year

Year long

Subject	Study Period Commencement:	Credit Points:
ELEN40001 Project Work	Year Long	25

Semester 1

Electrical engineering 400-level electives 25 points
Subject from other degree as required 12.5 points

Semester 2

Electrical engineering 400-level electives 25 points
Subject from other degree as required 12.5 points

400-level Electives

Subject	Study Period Commencement:	Credit Points:
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	ELEN40003 Digital Communications	Semester 1	12.50
	ELEN40004 Signal Processing 2	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
	ELEN40013 Electronic Circuit Design 3	Semester 1	12.50
Entry Requirements:	There will be no further entry 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/		
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".		