

955EE Bachelor of Engineering (Electrical) and Bachelor of Commerce

Year and Campus:	2012
CRICOS Code:	009724B
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
Coordinator:	Prof.Ampalavanapillai Nirmalathas
Contact:	<p>Melbourne School of Engineering Ground Floor, Old Engineering (Building 173) Current Students: Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au) Phone: 13 MELB (13 6352) +61 3 9035 5511</p> <p>Prospective Students: Email: eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au) Phone: + 61 3 8344 6944</p>
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 course (please refer to 355EE Bachelor of Engineering-Electrical (../view/2012/355EE)) must be satisfied, except that the requirement for physics is waived. Students must complete a total of 300 engineering points (For the software engineering stream the requirement for 431-202 Engineering Analysis B is also waived). # 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 and at least 50 points at 100-level. Please check with the Faculty of Business and Economics for core subjects required for the commerce degree. <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:	<p>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.</p>
Course Structure & Available Subjects:	Please see course overview
Subject Options:	THERE IS NO FURTHER ENTRY INTO THIS COURSE

Note: The double degree, Bachelor of Engineering (Electrical) and Bachelor of Commerce requires the completion of 500 points usually over five years. Students who have not yet completed the requirement of the Bachelor of Engineering should see a course adviser

Final year

Subject	Study Period Commencement:	Credit Points:
ELEN90067 Electrical Engineering Capstone Project	Year Long, Semester 1	25

PLUS

Four units from the Final year Electrical Engineering electives (50 points in total)
Subjects from other degree as required (25 points)

The selection of the elective subjects may be restricted by pre-requisite requirements and non-allowed subjects.

Final Year Electrical Engineering Electives

Subject	Study Period Commencement:	Credit Points:
ELEN90051 Advanced Communication Systems	Semester 1	12.50
ELEN90052 Advanced Signal Processing	Semester 1	12.50
ELEN90064 Advanced Control Systems	Semester 2	12.50
ELEN90053 Electronic System Design	Semester 2	12.50
ELEN90059 Lightwave Systems	Semester 1	12.50
ELEN90061 Communication Networks	Semester 2	12.50
ELEN90062 High Speed Electronics	Semester 2	12.50
ELEN90060 Power System Analysis	Semester 1	12.50
ELEN90007 Wireless Communication Systems	Semester 2	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 a one year Advanced Masters coursework degree.

Graduate Attributes:

The Bachelor of Engineering delivers on the University graduate attributes

Professional Accreditation:

The Bachelor of Engineering is a professional degree. Graduates can obtain professional recognition by joining Engineers Australia who has accredited these programs.

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”.