

2009 Course Summary Sheet

■ Bachelor of Engineering (Electrical)/Bachelor of Information Technology (IF59)

CONTINUING STUDENTS ONLY

This document will assist you with the selection of your study program and completion of your enrolment. Other useful information can be found on the Student Services web site studentservices.qut.com which can also be accessed via the Online Enrolment portlet.

Abbreviated Title: BE (Electronics)/BInfTech

Location: Gardens Point campus

Course Duration: 5 years full-time

Course Coordinators: **Engineering:** Dr R. Mahalinga-Iyer; Email bee.enquiries@qut.com; Phone 3138 1433
Information Technology: Mr Richard Thomas; Email fit.enquiry@qut.edu.au;
Phone: 3138 2782

Total Credit Points: 480

Standard Credit Points/Full-time Semester: 48

Note: the minimum course load per semester required for full-time enrolment may be more than 36 credit points.

Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the training and experience requirements for admission to the grade of Member of the Society. It is accredited by Engineers Australia, and the Institution of Radio and Electronics Engineers, Australia as meeting the training requirements for admission to graduate membership of these institutions.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Electronics)/Bachelor of Information Technology must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the course coordinator (through the Faculty Office), a report in the required format, describing the work carried out during the period of industrial experience/practice and including an Industrial Experience Record Form signed by the employer. Full details of industrial experience requirements can be accessed via the website at <http://www.bee.qut.edu.au/students/services/industrialexperience/>

Limits on grades of 3: A new policy concerning grades of 3 comes into effect from 1 January 2009 (QUT MOPP C/9.2). With effect from this date grades of 3 will no longer be considered a conceded or low pass but will be classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 will retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. The maximum number of pre-2009 grades of 3 permitted for this course can be found [here](#).

Important note: please ensure you record all unit details including unit codes and names, teaching period, credit points, class code and location code on your Enrolment. All units in your course have a Location code of GP and a class code of INT.

Faculty of Information Technology Component

Faculty of Information Technology Incompatibility/Translation Table

Prerequisite checking : The list located at the below link is to be used to assist with equating your previous studies with new unit prerequisite requirements and equivalent units.

http://www.studentservices.qut.edu.au/pdfs/IT_ug_translation_table.pdf

If you require advice on unit selection for course completion or have any concerns regarding the course please make an appointment with the IT Course Coordinator, Mr Richard Thomas, 3138 2736 or email fit.enquiry@qut.edu.au .

Cooperative Education Program

An optional one-year period of paid work experience in an area of information technology is available to eligible full-time students. Students participating in this program enrol in INB300 Professional Practice in IT in the first semester of the program and in INB302 IT Capstone Project in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment components of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions. Both of these units will count as IT Elective units. For further information contact the Faculty of Information Technology Student Services, Level 5, S Block, Gardens Point.

		Prerequisites	Credit Points	Contact Hrs/Wk
Year 2, Semester 1				
ENB240	Introduction to Electronics	ENB103	12	4
INB251	Networks	ITB005 or equivalent	12	3
INB271	The Web	ITB001, BEB100/ITB002	12	3
MAB233	Engineering Mathematics 3	MAB182/MAB132	12	4
Year 2, Semester 2				
ENB243	Linear Circuits & Systems	MAB182/MAB132, ENB103	12	4
ENB245	Introduction to Design and Professional Practice	ENB240, ENB246 or ITB001	12	4
INB210	Databases	Nil	12	4
INB272	Interaction Design	Nil	12	3
Year 3 Semester 1				
ENB242	Introduction to Telecommunications	MAB182/MAB132	12	3
ENB340	Power Systems and Machines	ENB103, MAB180/MAB131	12	4
	IT Elective Unit		12	
	IT Elective Unit		12	
Year 3 Semester 2				
ENB241	Software Systems Design	ENB246	12	4
ENB244	Microprocessors and Digital Systems	ENB240, ENB246	12	4
ENB345	Advanced Design and Professional Practice	ENB245	12	4
	IT Elective Unit		12	
Year 4 Semester 1				
ENB342	Signals, Systems and Transforms	ENB242, ENB243, ENB246 or ITB001	12	4
ENB343	Fields Transmission and Propagation	MAB132/MAB182, ENB240	12	4
ENB350	Real-time Computer Based Systems	ENB244	12	4
	IT Elective		12	
Year 4 Semester 2				
ENB344	Industrial Electronics	ENB244	12	4
ENB346	Digital Communications	ENB342, MAB233	12	4
INB301	The Business of IT	Nil	12	3
	IT Elective		12	
Year 5, Semester 1				
EEB781	Professional Studies 2	BNB007	12	4
EEB889-1	Project or	Completion of first 4 years of full-time course	12	
INB309-1	Major Project			
	Electrical Engineering Elective		12	
	Electrical Engineering Elective		12	
Year 5, Semester 2				
EEB889-2	Project OR		12	
INB309-2	Major Project			
	Electrical Engineering Elective		12	
	Electrical Engineering Elective		12	
	Electrical Engineering OR		12	
	IT Elective Unit		12	
Electrical Engineering Elective Units				
		Prerequisites	Semester Offered	
EEB941	Modern Signal Processing	EEB640	1	
ENB440	RF & Applied Electromagnetics	ENB343	1	
ENB441	Applied Image Processing	ENB342	1	
ENB352	Communication Environments for Embedded Systems	ENB350	2	
ENB446	Wireless Communications	ENB346	2	
ENB448	Signal Processing and Filtering	ENB342, MAB233	2	

Not all electives may be offered. At the discretion of the Course Coordinator, students may be allowed to select an elective from any advanced topics offered by the University. Also potential honours students may, with the approval of the Course Coordinator, select an elective from the postgraduate degree courses offered by the School of Engineering Systems.

Notes

- (1) EEB781 Professional Studies 2 can be taken earlier if desired subject to completion of BNB007 Professional Studies 1.
- (2) Core units at the third or fourth year of single Engineering degrees are acceptable as EE electives and a student may enrol in them provided pre-requisite requirements are satisfied.

IT Elective Units

For a complete List of IT Elective Units List please refer to the below link

http://www.studentservices.qut.edu.au/pdfs/IT_elective_list.pdf