

957EE Bachelor of Engineering (Electrical) and Bachelor of Arts

Year and Campus:	2012
CRICOS Code:	012878B
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>Faculty of Arts http://arts.unimelb.edu.au/ (http://arts.unimelb.edu.au/)</p> <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 Students are required to complete a total of 500 points in Bachelor of Engineering (Electrical)/Bachelor of Arts degree. Combined BA/BE(IT) and BA/BE course in engineering (computer, electrical or software engineering) and arts, 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. 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 arts subjects undertaken. # A total of 200 arts points must be completed, comprised of 50 points of 100-level arts subjects, 75 points of 200-level arts subjects, and 75 points of 300-level arts subjects. <p>In addition it is expected students should complete a major in the Arts component of their degree, for the individual area of study please contact The Faculty of Arts .</p>
Objectives:	<p>The Bachelor of Arts has as its objectives that graduates:</p> <ul style="list-style-type: none"> # Can demonstrate a sound knowledge and understanding of selected fields of studies in the humanities, languages and social and behavioural sciences; # Can access and appreciate national and international debates in their areas of study; # Can demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # Can apply critical and analytical skills and methods to the identification and resolution of problems within a changing social context; # Can act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force; # Can communicate effectively and, in the case of those students undertaking a language major, are able to read, write and speak another language with fluency and appreciate its cultural context; # Qualify for employment in a wide range of occupations; # Have a continuing commitment to learning; # Are proficient in the use of appropriate modern technologies, such as the computer and other IT systems, for the acquisition, processing and interpretation of data.

Course Structure & Available Subjects:	-																																
Majors/Minors/ Specialisations	<table border="1"> <thead> <tr> <th data-bbox="384 232 1481 286">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr><td data-bbox="384 286 1481 340">American Studies Major</td></tr> <tr><td data-bbox="384 340 1481 394">Ancient, Medieval & Early Modern Studies Major</td></tr> <tr><td data-bbox="384 394 1481 448">Anthropology</td></tr> <tr><td data-bbox="384 448 1481 501">Arabic Studies Major</td></tr> <tr><td data-bbox="384 501 1481 555">Art History Major</td></tr> <tr><td data-bbox="384 555 1481 609">Asian Studies Major</td></tr> <tr><td data-bbox="384 609 1481 663">Australian Indigenous Studies Major</td></tr> <tr><td data-bbox="384 663 1481 716">Australian Studies Major</td></tr> <tr><td data-bbox="384 716 1481 770">Chinese Language Major</td></tr> <tr><td data-bbox="384 770 1481 824">Chinese Studies Major</td></tr> <tr><td data-bbox="384 824 1481 878">Cinema Studies Major</td></tr> <tr><td data-bbox="384 878 1481 931">Classical Studies & Archaeology Major</td></tr> <tr><td data-bbox="384 931 1481 985">Creative Writing Major</td></tr> <tr><td data-bbox="384 985 1481 1039">Criminology Major</td></tr> <tr><td data-bbox="384 1039 1481 1093">Cultural Studies Major</td></tr> <tr><td data-bbox="384 1093 1481 1146">Development Studies Major</td></tr> <tr><td data-bbox="384 1146 1481 1200">English Literary Studies Major</td></tr> <tr><td data-bbox="384 1200 1481 1254">English Language Studies Major</td></tr> <tr><td data-bbox="384 1254 1481 1308">Environmental Studies Major</td></tr> <tr><td data-bbox="384 1308 1481 1361">European Studies Major</td></tr> <tr><td data-bbox="384 1361 1481 1415">French Major</td></tr> <tr><td data-bbox="384 1415 1481 1469">Gender Studies Major</td></tr> <tr><td data-bbox="384 1469 1481 1523">Geography Major</td></tr> <tr><td data-bbox="384 1523 1481 1576">German Major</td></tr> <tr><td data-bbox="384 1576 1481 1630">Hebrew Major</td></tr> <tr><td data-bbox="384 1630 1481 1684">History Major</td></tr> <tr><td data-bbox="384 1684 1481 1738">History and Philosophy of Science Major</td></tr> <tr><td data-bbox="384 1738 1481 1792">Indonesian Major</td></tr> <tr><td data-bbox="384 1792 1481 1845">International Studies Major</td></tr> <tr><td data-bbox="384 1845 1481 1899">Islamic Studies Major</td></tr> <tr><td data-bbox="384 1899 1481 1953">Italian Major</td></tr> </tbody> </table>	Major/Minor/Specialisation	American Studies Major	Ancient, Medieval & Early Modern Studies Major	Anthropology	Arabic Studies Major	Art History Major	Asian Studies Major	Australian Indigenous Studies Major	Australian Studies Major	Chinese Language Major	Chinese Studies Major	Cinema Studies Major	Classical Studies & Archaeology Major	Creative Writing Major	Criminology Major	Cultural Studies Major	Development Studies Major	English Literary Studies Major	English Language Studies Major	Environmental Studies Major	European Studies Major	French Major	Gender Studies Major	Geography Major	German Major	Hebrew Major	History Major	History and Philosophy of Science Major	Indonesian Major	International Studies Major	Islamic Studies Major	Italian Major
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Japanese Major
Jewish Studies Major
Linguistics & Applied Linguistics Major
Modern Greek Major
Philosophy Major
Planning and Design Major
Political Science Major
Psychology Major
Russian Major
Social Theory Major
Socio-legal Studies Major
Sociology Major
Spanish Major
Swedish Major
Theatre Studies Major

Subject Options:**THERE IS NO FURTHER ENTRY INTO THIS COURSE**

Note: The double degree, Bachelor of Engineering (Electrical)/Bachelor of Arts requires the completion of 500 points, including a total of 300 engineering points, usually over five years. Students who have not yet completed the requirements of the Bachelor of Engineering degree should see a course adviser.

Final Year Subjects

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

PLUS

Four Subjects from Final year Electrical Engineering Electives (50 points in total)

Subjects from other degree as required 25 points

The selection of elective subjects may be restricted by timetabling and pre-requisite requirements.

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
ELEN90061 Communication Networks	Semester 2	12.50
ELEN90053 Electronic System Design	Semester 2	12.50
ELEN90059 Lightwave Systems	Semester 1	12.50

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ELEN90060 Power System Analysis	Semester 1	12.50											
ELEN90007 Wireless Communication Systems	Semester 2	12.50											
Entry Requirements:	There is 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/												
Further Study:	<p>Honours Depending on your major area of study, you have the option of applying for an Honours year after you complete the BA, which will include a research project. For more information on entry to Honours, see the Arts webpage (http://www.arts.unimelb.edu.au/futurestudents/programs/Honours.html) .</p> <p>Coursework Masters If you wish to continue your professional studies at postgraduate level, the studies you undertake in your major can provide a direct pathway to Coursework Masters Degrees in areas such as editing, media and communications, public policy and management, international studies, arts management, development studies and many more. Entry is based on academic merit and in most cases requires a Bachelors degree or equivalent in the relevant study area. You will also be well-prepared to undertake a Melbourne Model Graduate Professional Degree in areas such as law, teaching and commerce.</p> <p>For more information on entry into a coursework masters degree, see the Arts coursework programs webpage (http://www.arts.unimelb.edu.au/futurestudents/programs/pg-programs.html) , or the University graduate programs webpage (http://www.futurestudents.unimelb.edu.au/grad/) .</p> <p>Research Higher Degrees If you wish to undertake advanced research and explore particular study areas in more depth, there will be opportunities to proceed to a range of Research Higher Degrees at masters and doctoral level. For more information about research higher degree study in Arts, see the Arts webpage (http://www.arts.unimelb.edu.au/futurestudents/research/) .</p>												
Graduate Attributes:	See course objectives												
Generic Skills:	<p>Arts students are encouraged to pursue their academic interests and professional aspirations by taking a variety of subjects in a range of different areas of study. All arts subjects provide students with transferable generic skills that prepare them for further study and the workplace.</p> <p>As a result of attendance at scheduled classes, participation in planned activities and discussion groups, and timely completion of essays and assignments, arts graduates should acquire transferable generic skills in the following areas:</p> <ul style="list-style-type: none"> # research through competent use of the library, electronic databases, and other information sources, and the definition of areas of inquiry and methods of research; # critical thinking and analysis through recommended reading, essay writing and tutorial discussion, and by determining the strength of an argument; # thinking in theoretical terms through lectures, tutorial discussion, essay writing and engagement in the methodologies of the humanities and social sciences; 												

thinking creatively

through essay writing, creative writing, tutorial discussions and presentations, conceptualising theoretical problems, forming judgements and arguments from conflicting evidence and by critical analysis;

understanding of social, ethical and cultural context

through the contextualisation of judgements, developing a critical self-awareness, being open to new ideas and possibilities and by constructing an argument;

communicating knowledge intelligibly and economically

through essay writing and tutorial and seminar discussion;

written communication

through essay preparation and assignment writing;

public speaking

through tutorial and seminar discussion and class presentations;

attention to detail

through essay preparation and writing, and examination revision;

time management and planning

through managing and organising workloads for recommended reading, essay and assignment completion and examination revision;

teamwork

through joint projects and group discussions.