

957AV Bachelor of Engineering (Civil) and Bachelor of Arts

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| 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. |
| Coordinator: | Professor Priyan Mendis (Engineering) |
| Contact: | <p>Enquiries: Arts & Music Student Centre Rm 104 (Ground Floor) Old Arts Building</p> <p>Location (PDF, 1027kb) (http://www.pb.unimelb.edu.au/CampusMaps/Parkville_P.pdf)</p> <p>Tel: +61 3 8344 5235 Fax: +61 3 9347 0424 Search for an answer or send an email via our queries database: http://arts-unimelb.custhelp.com/ (http://arts-unimelb.custhelp.com/)</p> <p>Melbourne School of Engineering Building 173, Grattan Street The University of Melbourne Victoria 3010 AUSTRALIA General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimile + 61 3 9349 2182 + 61 3 8344 7707 Email eng-info@unimelb.edu.au (/)</p> |
| Course Overview: | <p>Students studying the BE/BA degree should consult the BE single degree course structure for a current list of core engineering subjects. For further information and up-to-date course advice students should regularly check the Department of Civil and Environmental Engineering's course advice page at www.civenv.unimelb.edu.au/undergraduate</p> <p>The combined degree of Bachelor of Engineering (Civil)/Bachelor of Arts requires a total of 500 points over five years. Students are required to complete 300 points of Engineering subjects and 200 points of Arts subjects.</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. Where the courses include elective subjects these should be chosen so that departmental guidelines on electives are satisfied (see: www.civenv.unimelb.edu.au/undergraduate). Students should also avoid timetable clashes in choosing their electives. In particular, students in combined degrees should plan their courses so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.</p> <p>The Bachelor of Arts (BA) offers unique flexibility with the opportunity to focus on a major chosen from a broad range of Arts study options in the humanities, social sciences and languages.</p> <p>Students can:</p> <ul style="list-style-type: none"> # Undertake specialised fieldwork, research options and integrated internship programs which provide opportunities for professional work experience and community engagement. # Broaden your horizons and undertake international study exchange at any one of 120 universities worldwide, receiving credit towards your Melbourne Arts degree. # Study a new language with most areas available from beginners to advanced level. # Benefit from studying with high achieving local and international students with Melbourne Arts having the highest entry requirements for arts disciplines in Australia. # Learn from internationally recognised scholars and industry professionals. |

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| | <ul style="list-style-type: none"> # Create pathways into further postgraduate study in professional Arts Masters courses, Melbourne Model Graduate Professional Degrees, and with the completion of an Honours year, entry into research higher degrees in Arts. # Enjoy a rewarding professional career, with Melbourne Arts graduates enjoying employment rates well above the national Arts average. |
| Objectives: | <p>The course objectives are that engineering graduates should:</p> <ul style="list-style-type: none"> # have a broad knowledge-base and command of the scientific principles underlying technology; # have acquired the educational and professional standards required by the Institution of Engineers Australia for registration as chartered professional engineers; # possess a broad knowledge base of their chosen engineering discipline and of other disciplines such as management, humanities and languages; # demonstrate a sound knowledge and understanding of selected fields of study in the humanities, languages and social and behavioural sciences; # have acquired the mathematical and computational skills necessary for the solution of theoretical and practical problems, for further development professionally and for meeting future changes in technology; # understand the basic principles underlying the management of physical, human and financial resources; # have acquired well-developed generic skills such as critical thinking, intellectual curiosity, problem solving, independent thought, effective communication and the ability to work in a cooperative manner as a member of a team; and 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; # communicate effectively and, in the case of students undertaking a language major, are able to read, write and speak fluently and with an appreciation of the cultural context of the language; # have an appreciation of the interpersonal and management skills required by engineers in undertaking professional activities; # have acquired a sense of professional ethics and responsibility towards the profession and the community; # apply critical and analytical skills and methods to the identification and resolution of problems within a changing social context; # act as informed and critically discriminating participants within the community of scholars, as citizens and in the workforce; # have an understanding of political, economic, social and cultural developments in our society and in the wider international context; and # realise that, as professional engineers, they are a part of a highly competitive global economy. <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: | <p>-</p> |

| Majors/Minors/ Specialisations | Arts majors |
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| | 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 |
| | Japanese Major |

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| | <p>Jewish Studies Major</p> <p>Linguistics & Applied Linguistics Major</p> <p>Modern Greek Major</p> <p>Philosophy Major</p> <p>Planning and Design Major</p> <p>Political Science Major</p> <p>Psychology Major</p> <p>Russian Major</p> <p>Social Theory Major</p> <p>Socio-legal Studies Major</p> <p>Sociology Major</p> <p>Spanish Major</p> <p>Swedish Major</p> <p>Theatre Studies Major</p> |
| <p>Subject Options:</p> | <p>Arts requirements:</p> <p>All students in the Bachelor of Arts and Bachelor of Engineering (Civil) are required to complete 200 points of Arts subjects of which:</p> <ul style="list-style-type: none"> # 50 points must be taken at first year level; # 75 points must be taken at second year level and; # 75 points must be taken at third year level. <p>In addition it is expected students should complete a major in the Arts component of their degree.</p> <p>All Arts subjects undertaken must be from the following arts-approved study areas (see the individual area of study entry for full details):</p> <ul style="list-style-type: none"> # all language subjects # American studies # Ancient, Medieval and Early Modern Studies (some non-arts approved subjects included) # Anthropology # Art History # Asian Studies (some non-arts approved subjects included) # Australian Indigenous Studies (some non-arts approved subjects included) # Australian Studies # Cinema Studies # Classical studies and Archaeology # Creative Writing # Criminology # Cultural Studies # Development Studies (some non-art approved subjects included) # English Literary Studies # English as a Second Language # English Language Studies # Environmental Studies (some non-arts approved subjects included) # European Studies |

- # Gender Studies
- # Geography
- # Hebrew and Jewish Studies
- # History
- # History and Philosophy of Science/International Studies
- # Islamic Studies
- # Linguistics and Applied Linguistics
- # Philosophy
- # Planning and Design
- # Political Science
- # Psychology
- # Social Theory
- # Socio-legal Studies
- # Theatre Studies

THERE WILL BE NO FIRST, SECOND OR THIRD YEAR ENTRY INTO THIS COURSE FROM 2008

THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008. STUDENTS WHO HAVE FAILED A SUBJECT MUST SEE A COURSE ADVISER FOR SUBJECT PLANNING

Fourth Year

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

Semester 1

| Subject | Study Period Commencement: | Credit Points: |
|--|----------------------------|----------------|
| ENGR30001 Fluid Mechanics | Semester 1, Semester 2 | 12.50 |
| CVEN90044 Engineering Site Characterisation | Semester 1 | 12.50 |
| CVEN90043 Sustainable Infrastructure Systems | Semester 1 | 12.50 |

Arts subject as required (12.5 points)

Semester 2

| Subject | Study Period Commencement: | Credit Points: |
|--|----------------------------|----------------|
| CVEN90045 Engineering Project Implementation | Semester 2 | 12.50 |
| CVEN30010 Systems Modelling and Design | Semester 2 | 12.50 |
| CVEN30009 Structural Theory and Design | Semester 2 | 12.50 |

Arts subjects as required (12.5 points).

Fifth Year

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

Semester 1

| Subject | Study Period Commencement: | Credit Points: |
|--------------------------------------|----------------------------|----------------|
| CVEN40008 Infrastructure Design | Semester 1 | 12.50 |
| ENGM40001 Management for Engineers 3 | Semester 1 | 12.50 |

Arts subjects as required (25 points).

Semester 2

| | Subject | Study Period Commencement: | Credit Points: |
|---|---|----------------------------|----------------|
| | CVEN40007 Steel & Concrete Design | Semester 2 | 12.50 |
| | CVEN40009 Integrated Design | Semester 2 | 12.50 |
| Arts subjects as required (25 points). | | | |
| Entry Requirements: | There is no further entry into this combined course. | | |
| Core Participation Requirements: | <p>The Bachelor of Arts requires a standard level of ability across all disciplines. It will be assumed students are able to access and attend classes on a regular basis, are capable of learning in a University environment and will be able to take responsibility for their own learning. Any ability beyond this threshold will be robustly supported through the curriculum. There are no pre-requisites for first year subjects, and any intensive use of IT or technologies will be adequately supported. Certain subjects have more specific requirements and demands, such as fieldwork or travelling, which are clearly outlined in the subject description. The University is dedicated to provide support to those with special requirements. The Faculty Disability Contact Officer works with students, the University Disability Liaison Unit and teaching staff to assist students with their special requirements, with a particular focus on accommodations for in-class and examination assessment tasks. Further details on the disability support scheme can be found at the Disability Liaison Unit website.</p> | | |
| 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> <p># research through competent use of the library, electronic databases, and other information sources, and the definition of areas of inquiry and methods of research;</p> <p># critical thinking and analysis through recommended reading, essay writing and tutorial discussion, and by determining the strength of an argument;</p> | | |

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.