

957AR Bachelor of Engineering (Environmental) and Bachelor of Arts

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:	Dr Graham Moore
Contact:	<p>Melbourne School of Engineering Building 173, Grattan Street The University of Melbourne VIC 3010 Melbourne General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimilies + 61 3 9349 2182 + 61 3 8344 7707 Email eng-info@unimelb.edu.au (eng-info@unimelb.edu.au)</p>
Course Overview:	<p>Students studying the BA/BE degree should consult the BE single degree course structure for a current list of core engineering subjects. The following exceptions are applicable to the BA/BE degree:</p> <ul style="list-style-type: none"> # 620-141 Mathematics A and 620-143 Applied Mathematics may be replaced by 620-121 Mathematics A (Advanced) and 620-123 Applied Mathematics (Advanced) with permission of Department of Mathematics and Statistics; # 121-021 Environmental Politics and Management and 121-018 Geomorphology may be counted as Arts points. <p>Students should regularly check the Department of Civil and Environmental Engineering's course advice page for additional information and up-to-date course advice available on the web.</p> <p>The combined degree of Bachelor of Engineering (Environmental)/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. 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. # 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 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 an, 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	<p>Arts majors</p> <table border="1" data-bbox="389 853 1485 2047"> <thead> <tr> <th data-bbox="389 853 1485 913">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr><td data-bbox="389 913 1485 969">American Studies Major</td></tr> <tr><td data-bbox="389 969 1485 1025">Ancient, Medieval & Early Modern Studies Major</td></tr> <tr><td data-bbox="389 1025 1485 1081">Anthropology</td></tr> <tr><td data-bbox="389 1081 1485 1137">Arabic Studies Major</td></tr> <tr><td data-bbox="389 1137 1485 1193">Art History Major</td></tr> <tr><td data-bbox="389 1193 1485 1249">Asian Studies Major</td></tr> <tr><td data-bbox="389 1249 1485 1305">Australian Indigenous Studies Major</td></tr> <tr><td data-bbox="389 1305 1485 1361">Australian Studies Major</td></tr> <tr><td data-bbox="389 1361 1485 1417">Chinese Language Major</td></tr> <tr><td data-bbox="389 1417 1485 1473">Chinese Studies Major</td></tr> <tr><td data-bbox="389 1473 1485 1529">Cinema Studies Major</td></tr> <tr><td data-bbox="389 1529 1485 1585">Classical Studies & Archaeology Major</td></tr> <tr><td data-bbox="389 1585 1485 1641">Creative Writing Major</td></tr> <tr><td data-bbox="389 1641 1485 1697">Criminology Major</td></tr> <tr><td data-bbox="389 1697 1485 1753">Cultural Studies Major</td></tr> <tr><td data-bbox="389 1753 1485 1809">Development Studies Major</td></tr> <tr><td data-bbox="389 1809 1485 1865">English Literary Studies Major</td></tr> <tr><td data-bbox="389 1865 1485 1921">English Language Studies Major</td></tr> <tr><td data-bbox="389 1921 1485 1977">Environmental Studies Major</td></tr> <tr><td data-bbox="389 1977 1485 2047">European Studies 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
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
	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:	<p>Arts requirements:</p> <p>All students in the Bachelor of Arts and Bachelor of Engineering (Environmental) 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

Engineering requirements:

THERE WILL BE NO FIRST YEAR ENTRY INTO THIS COURSE FROM 2008

THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008

Note: Students who commenced 2nd year in 2008 who have not completed, (or who have failed), the second year subjects required in the Bachelor of Engineering degree please see a course adviser.

4th Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
ENGR20004 Engineering Mechanics	January, Semester 1, Semester 2	12.50
CVEN30008 Risk Analysis	Semester 1	12.50
ENGR30001 Fluid Mechanics	Semester 1, Semester 2	12.50

plus Arts subject as required 12.5 points

4th Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
CVEN30010 Systems Modelling and Design	Semester 2	12.50
ENEN90028 Monitoring Environmental Impacts	Semester 2	12.50

plus Arts subjects as required (25 points)

Fifth Year

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

5th Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
ENGM40001 Management for Engineers 3	Semester 1	12.50
CVEN90012 Hydrological Processes 1	Semester 1	12.50
CVEN90014 Hydrological Processes 2	Semester 1	12.50

plus Arts subject as required (12.5 points)

5th Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
CVEN40009 Integrated Design	Semester 2	12.50
CVEN40017 Analysis & Design-Environmental Systems	Semester 2	12.50
CVEN90020 Research Topic	Semester 1, Semester 2	12.50

plus Arts subject as required (12.5 points)

Entry Requirements:

There is no further entry into this combined course.

Core Participation Requirements:

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. 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:

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 \(http://www.arts.unimelb.edu.au/futurestudents/programs/Honours.html\)](http://www.arts.unimelb.edu.au/futurestudents/programs/Honours.html).

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.

For more information on entry into a coursework masters degree, see the [Arts coursework programs webpage \(http://www.arts.unimelb.edu.au/futurestudents/programs/pg-programs.html\)](http://www.arts.unimelb.edu.au/futurestudents/programs/pg-programs.html), or the [University graduate programs webpage \(http://www.futurestudents.unimelb.edu.au/grad/\)](http://www.futurestudents.unimelb.edu.au/grad/).

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 \(http://www.arts.unimelb.edu.au/futurestudents/research/\)](http://www.arts.unimelb.edu.au/futurestudents/research/).

	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 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 http://www.unimelb.edu.au/about/attributes.html 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.