

957-AC Bachelor of Engineering (Chemical) and Bachelor of Arts

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| Year and Campus: | 2009 |
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| Level: | Undergraduate |
| Duration & Credit Points: | |
| 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>Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA</p> <p>Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email http://eng-unimelb.custhelp.com (http://eng-unimelb.custhelp.com/)</p> |
| Course Overview: | <p>The recommended or standard course structures for the combined Bachelor of Engineering (Chemical) are listed below. 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 timetable clashes are avoided. 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 combined degree of Bachelor of Engineering (Chemical)/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>Students who intend to overlap second and later year subjects should consult with a course adviser to ensure all core engineering requirements are met.</p> <p>Note: Chemical Engineering subjects: 411-202 Process Engineering 1, 411-391 Bionanoengineering, 411-339 Process Engineering 2, 411-445 Process Engineering 3, 411-448 Biochemical/Environmental Engineering 2, 411-449 Materials and Recycling are not taken by students enrolled in BE combined with Arts, Commerce or Law.</p> <p>The Bachelor of Arts (BA) offers unique flexibility with the opportunity to focus on one 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. |

| | <p># Enjoy a rewarding professional career, with Melbourne Arts graduates enjoying employment rates well above the national Arts average.</p> | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Objectives:</p> | <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. | | | | | | | | | | | | | | | | | | | | | | |
| <p>Majors/Minors/ Specialisations</p> | <p>Arts majors</p> <table border="1" data-bbox="389 801 1485 2051"> <thead> <tr> <th data-bbox="389 801 1485 864">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr><td data-bbox="389 864 1485 920">American Studies Major</td></tr> <tr><td data-bbox="389 920 1485 976">Ancient, Medieval & Early Modern Studies Major</td></tr> <tr><td data-bbox="389 976 1485 1032">Anthropology</td></tr> <tr><td data-bbox="389 1032 1485 1088">Arabic Studies Major</td></tr> <tr><td data-bbox="389 1088 1485 1144">Art History Major</td></tr> <tr><td data-bbox="389 1144 1485 1200">Asian Studies Major</td></tr> <tr><td data-bbox="389 1200 1485 1256">Australian Indigenous Studies Major</td></tr> <tr><td data-bbox="389 1256 1485 1312">Australian Studies Major</td></tr> <tr><td data-bbox="389 1312 1485 1368">Chinese Language Major</td></tr> <tr><td data-bbox="389 1368 1485 1424">Chinese Studies Major</td></tr> <tr><td data-bbox="389 1424 1485 1480">Cinema Studies Major</td></tr> <tr><td data-bbox="389 1480 1485 1536">Classical Studies & Archaeology Major</td></tr> <tr><td data-bbox="389 1536 1485 1592">Creative Writing Major</td></tr> <tr><td data-bbox="389 1592 1485 1648">Criminology Major</td></tr> <tr><td data-bbox="389 1648 1485 1704">Cultural Studies Major</td></tr> <tr><td data-bbox="389 1704 1485 1760">Development Studies Major</td></tr> <tr><td data-bbox="389 1760 1485 1816">English Literary Studies Major</td></tr> <tr><td data-bbox="389 1816 1485 1872">English Language Studies Major</td></tr> <tr><td data-bbox="389 1872 1485 1928">Environmental Studies Major</td></tr> <tr><td data-bbox="389 1928 1485 1984">European Studies Major</td></tr> <tr><td data-bbox="389 1984 1485 2051">French 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 |
| Major/Minor/Specialisation | | | | | | | | | | | | | | | | | | | | | | | |
| American Studies Major | | | | | | | | | | | | | | | | | | | | | | | |
| Ancient, Medieval & Early Modern Studies Major | | | | | | | | | | | | | | | | | | | | | | | |
| Anthropology | | | | | | | | | | | | | | | | | | | | | | | |
| Arabic Studies Major | | | | | | | | | | | | | | | | | | | | | | | |
| Art History Major | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | | | | | | |

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| | Gender Studies Major |
| | Geography Major |
| | German Major |
| | Hebrew Major |
| | History Major |
| | History & 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 (Chemical) are required to complete 200 points of Arts subjects of which;</p> <ul style="list-style-type: none"> * 50 points must be taken at level one; * 75 points must be taken at level two and; * 75 points must be taken at level three. <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 or SECOND YEAR ENTRY INTO THIS COURSE FROM 2008 For students who have failed subjects they must see a Course Adviser

THIRD YEAR

SUBJECTS LISTED BELOW MUST BE TAKE IN THIS APPROVED ORDER, REGARDLESS OF SEMESTER AVAILABILITY

Semester 1

| Subject | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| 411-201 Introduction to Transport Processes | Semester 1 | 12.500 |

plus Arts subjects as required (37.5 points)

Semester 2

| Subject | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| 411-204 Chemical Engineering Thermodynamics | Semester 2 | 12.500 |
| 610-211 Light, Matter & Chemical Change B | Not offered 2009 | 12.50 |
| 400-306 Fluid Mechanics | Semester 2 | 12.500 |

plus Arts subject as required (12.5 points)

FOURTH YEAR

SUBJECTS LISTED BELOW MUST BE TAKE IN THIS APPROVED ORDER, REGARDLESS OF SEMESTER AVAILABILITY

Semester 1

| Subject | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| 411-303 Reactor Engineering | Semester 1 | 12.500 |
| 411-331 Heat and Mass Transport Processes 1 | Semester 1 | 12.500 |

| | | |
|---|------------|--------|
| 411-343 Chemical Engineering Management | Semester 1 | 12.500 |
| 411-393 Bioprocess Engineering | Semester 1 | 12.500 |

Semester 2

| Subject | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| 411-336 Process Dynamics and Control | Semester 2 | 12.500 |
| 411-337 Practical and Computer Laboratory | Semester 2 | 12.500 |

plus Art subjects as required (25 points)

FIFTH YEAR

SUBJECTS LISTED BELOW **MUST** BE TAKE IN THIS APPROVED ORDER, REGARDLESS OF SEMESTER AVAILABILITY

Semester 1

| Subject | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| 411-432 Particle Mechanics and Processing | Semester 1 | 12.500 |
| 411-441 Heat and Mass Transport Processes 2 | Semester 1 | 12.500 |
| 411-442 Process Equipment Design | Semester 1 | 12.500 |

plus Arts subject as required (12.5 points)

Semester 2

| Subject | Study Period Commencement: | Credit Points: |
|--------------------------|--------------------------------|----------------|
| 411-446 Research Project | Summer, Semester 1, Semester 2 | 18.750 |
| 411-447 Design Project | Semester 2 | 18.750 |

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. 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.

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>) .

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.

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| | <p>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. |