

## 967EG Bachelor of Geomatic Engineering and Bachelor of Arts

<b>Year and Campus:</b>	2010 - Parkville
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Level:</b>	Undergraduate
<b>Duration &amp; Credit Points:</b>	500 credit points taken over 60 months full time. This course is available as full or part time.
<b>Coordinator:</b>	Allison Kealy
<b>Contact:</b>	<p>Enquiries: Arts &amp; Music Student Centre Rm 104 (Ground Floor) Old Arts Building</p> <p><b>Location (PDF, 1027kb) (<a href="http://www.pb.unimelb.edu.au/CampusMaps/Parkville_P.pdf">http://www.pb.unimelb.edu.au/CampusMaps/Parkville_P.pdf</a>)</b></p> <p>Tel: +61 3 8344 5235 Fax: +61 3 9347 0424 Search for an answer or send an email via our queries database: <a href="http://arts-unimelb.custhelp.com/">http://arts-unimelb.custhelp.com/</a> (<a href="http://arts-unimelb.custhelp.com/">http://arts-unimelb.custhelp.com/</a>)</p>
<b>Course Overview:</b>	<p>Students taking combined degree courses who intend to overlap third- and later-year subjects, should consult with a course adviser to ensure all core geomatic engineering requirements are met.</p> <p>The recommended or standard course structures 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 and School 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>
<b>Objectives:</b>	<p>The Bachelor of Arts has as its objectives that graduates:</p> <ul style="list-style-type: none"> <li># can demonstrate a sound knowledge and understanding of selected fields of studies in the humanities, languages and social and behavioural sciences;</li> <li># can access and appreciate national and international debates in their areas of study;</li> <li># 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;</li> <li># can apply critical and analytical skills and methods to the identification and resolution of problems within a changing social context;</li> <li># can act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force;</li> <li># 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;</li> <li># qualify for employment in a wide range of occupations;</li> <li># have a continuing commitment to learning;</li> <li># 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.</li> </ul> <p>The Bachelor of Engineering has as its objectives that graduates:</p> <ul style="list-style-type: none"> <li># Have a sound fundamental understanding of the scientific principles underlying technology;</li> <li># Possess a broad knowledge base of their chosen discipline and of other disciplines to facilitate effective communication with those other professionals with whom engineers routinely communicate</li> <li># Be able to apply the basic principles underlying the management of physical, human and financial resources</li> <li># Have acquired the mathematical and computational skills necessary for the solution of theoretical and practical problems;</li> </ul>

	<ul style="list-style-type: none"> <li># Possess analytical, problem-solving and design skills, including those appropriate for sustainable development;</li> <li># Have verbal and written communication skills that enable them to contribute substantially to society;</li> <li># Have acquired lifelong learning skills for further development professionally and for meeting future changes in technology;</li> <li># Have acquired a sense of professional ethics and responsibility towards the profession and the community;</li> <li># Have developed the interpersonal and management skills required by engineers in undertaking professional activities; and</li> <li># Be able to enact the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development.</li> </ul>																		
<b>Course Structure &amp; Available Subjects:</b>	<p>To complete the combined Bachelor of Arts / Bachelor of Geomatic Engineering degrees you must complete subjects from both degrees to a minimum of 500 points or five full time years of study. Each degree component requires the completion of both an minimum and maximum number of points from each faculty within the total of 500 points. <i>No subject can be counted towards both degrees.</i></p> <p>A combined degree involves completing fewer subjects or points than is both degrees were completed separately.</p> <p>You cannot be awarded one component of your combined degree upon completion of the minimum requirements for that component. In other words, you must complete all the requirements for both components before you are eligible to graduate from either. If you discontinue either component of your combined course, you must complete the full requirements of the remaining degree (ie. the full amount of points required for the remaining single degree, for example 300 points for the BA).</p> <p>You are expected to be familiar with the course requirements of both of the components of your degree.</p>																		
<b>Majors/Minors/ Specialisations</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr><td>American Studies Major</td></tr> <tr><td>Ancient, Medieval &amp; Early Modern Studies Major</td></tr> <tr><td>Anthropology</td></tr> <tr><td>Arabic Studies Major</td></tr> <tr><td>Art History Major</td></tr> <tr><td>Asian Studies Major</td></tr> <tr><td>Australian Indigenous Studies Major</td></tr> <tr><td>Australian Studies Major</td></tr> <tr><td>Chinese Language Major</td></tr> <tr><td>Chinese Studies Major</td></tr> <tr><td>Cinema Studies Major</td></tr> <tr><td>Classical Studies &amp; Archaeology Major</td></tr> <tr><td>Creative Writing Major</td></tr> <tr><td>Criminology Major</td></tr> <tr><td>Cultural Studies Major</td></tr> <tr><td>Development Studies Major</td></tr> <tr><td>English Literary 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
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
<b>Subject Options:</b>	<p>All students are required to complete 200 points of Arts subjects of which;</p> <ul style="list-style-type: none"> <li># 50 points must be taken at first year level;</li> <li># 75 points must be taken at second year level and;</li> <li># 75 points must be taken at third year level.</li> </ul> <p>As well as the completion of 200 points of BA study, four further basic rules apply;</p> <p><b>Breadth of study requirements:</b></p>

No more than 150 points may be taken in any one area of study. This consists of a maximum of 25 points at first year level and 125 points at second/third year level.

**Subject year level entry requirements:**

**Level one subjects:** Most level one subjects do not have prerequisites apart from admission to a degree or diploma course. However, some language streams require the completion of VCE or IB language study and/or completion of a placement test. This must be done *before* you enrol. *Level one subjects are not available to students enrolled in fourth-year honours, postgraduate certificates, postgraduate diplomas, or masters programs. Level one subjects cannot be credited to level two or three of the BA or BA combined degrees.*

**Level two subjects** Students should complete the level one requirements of their degree before enrolling in a level two subject. Students **must** complete at least 50 points of level one (four subjects) in order to enrol in a level two or two/three subject. *Level two subjects are not available to students enrolled in fourth-year honours, postgraduate certificates, postgraduate diplomas, or masters programs. Level two subjects cannot be credited to level one or three of the BA or BA combined degrees.*

**Level three subjects** Students should complete the level two requirements of their degree before enrolling in a level three subject. Students must complete at least 25 points of level two (usually two subjects) in order to enrol in a level three subject. *Level three subjects are not available to students enrolled in fourth-year honours, postgraduate certificates, postgraduate diplomas, or masters programs. Level three subjects cannot be credited to level one or two of the BA or BA combined degrees.*

*Level four subjects are not available to students enrolled in undergraduate degrees, concurrent certificates, concurrent diplomas, graduate certificates, graduate diplomas or one-year masters programs. Level five subjects are not available to students enrolled in undergraduate degrees, concurrent certificates, concurrent diplomas, graduate certificates, or graduate diplomas.*

Subject level rules apply to students in combined Arts degrees.

**Language study restrictions:**

The study of languages is encouraged in BA combined degrees, and language learning can be one outcome of the arts component, which allows for study of one language. As the BA also seeks to provide a broad base of learning in the humanities and social sciences, therefore a second language is not permitted for credit within the arts component of BA combined degrees.

**Arts-approved subject requirements:**

All arts subjects undertaken in this BA must be from the following arts-approved study areas. Non-arts approved subjects cannot be completed in a combined degree, even if they are included as part of a major.

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  
 Sociology  
 Theatre Studies

**All students are responsible for planning a course that satisfies course requirements.**

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

### Third Year

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

#### Semester 1

**Breadth subject** (<http://handbook.unimelb.edu.au/breadth/index.html>) (12.5 points)

and two (12.5 point) subjects from the Department of Geomatics (with approval from the Course Coordinator)

Art subject as required (12.5 points)

#### Semester 2

Subject	Study Period Commencement:	Credit Points:
451-206 Least Squares & Network Analysis	Summer	12.50
GEOM30005 Satellite Positioning and Geodesy	Semester 2	12.50

Art subjects as required (25 points)

### Fourth Year

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

#### Semester 1

Subject	Study Period Commencement:	Credit Points:
GEOM30004 Cadastral Surveying & Land Development	Semester 1	12.50
451-332 Imaging in the Geosciences	Not offered 2010	
451-235 Spatial Databases	Not offered 2010	
GEOM90007 Spatial Visualisation	Semester 1	12.50

#### Semester 2

Art subject as required (12.5 points)

AND choose **one** of the following

Subject	Study Period Commencement:	Credit Points:
451-340 Integrated Spatial Systems 1	Not offered 2010	
451-341 Applications of GIS and Remote Sensing	Not offered 2010	
GEOM40004 Photogrammetry	Semester 2	12.50

Art subjects as required (25points)

### FifthYear

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

#### Semester 1

Subject	Study Period Commencement:	Credit Points:
---------	----------------------------	----------------

	<table border="1"> <tr> <td>GEOM40006 Research Project</td> <td>Year Long</td> <td>25</td> </tr> <tr> <td>GEOM40001 Land Administration</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOM40005 Professional and Business Studies</td> <td>Semester 1</td> <td>12.50</td> </tr> </table> <p>Art subject as required (12.5 points)</p> <p><b>Semester 2</b></p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOM40002 Residential Land Development</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Art subjects as required (25 points)</p>	GEOM40006 Research Project	Year Long	25	GEOM40001 Land Administration	Semester 1	12.50	GEOM40005 Professional and Business Studies	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	GEOM40002 Residential Land Development	Semester 2	12.50
GEOM40006 Research Project	Year Long	25														
GEOM40001 Land Administration	Semester 1	12.50														
GEOM40005 Professional and Business Studies	Semester 1	12.50														
Subject	Study Period Commencement:	Credit Points:														
GEOM40002 Residential Land Development	Semester 2	12.50														
<b>Entry Requirements:</b>	There is no further entry into this combined course.															
<b>Core Participation Requirements:</b>	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.															
<b>Further Study:</b>	<p><b>Honours</b> 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 <a href="http://www.arts.unimelb.edu.au/futurestudents/programs/Honours.html">Arts webpage (http://www.arts.unimelb.edu.au/futurestudents/programs/Honours.html)</a> .</p> <p><b>Coursework Masters</b> 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 <a href="http://www.arts.unimelb.edu.au/futurestudents/programs/pg-programs.html">Arts coursework programs webpage (http://www.arts.unimelb.edu.au/futurestudents/programs/pg-programs.html)</a> , or the <a href="http://www.futurestudents.unimelb.edu.au/grad/">University graduate programs webpage (http://www.futurestudents.unimelb.edu.au/grad/)</a> .</p> <p><b>Research Higher Degrees</b> 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 <a href="http://www.arts.unimelb.edu.au/futurestudents/research/">Arts webpage (http://www.arts.unimelb.edu.au/futurestudents/research/)</a> .</p>															
<b>Graduate Attributes:</b>	See course objectives															
<b>Professional Accreditation:</b>	Royal Institute of Chartered Surveyors															
<b>Generic Skills:</b>	<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># <b>research</b> 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># <b>critical thinking and analysis</b> through recommended reading, essay writing and tutorial discussion, and by determining the strength of an argument;</p> <p># <b>thinking in theoretical terms</b> through lectures, tutorial discussion, essay writing and engagement in the methodologies of the humanities and social sciences;</p> <p># <b>thinking creatively</b> through essay writing, creative writing, tutorial discussions and presentations, conceptualising theoretical problems, forming judgements and arguments from conflicting evidence and by critical analysis;</p> <p># <b>understanding of social, ethical and cultural context</b> through the contextualisation of judgements, developing a critical self-awareness, being open to new ideas and possibilities and by constructing an argument;</p> <p># <b>communicating knowledge intelligibly and economically</b> through essay writing and tutorial and seminar discussion;</p> <p># <b>written communication</b> through essay preparation and assignment writing;</p> <p># <b>public speaking</b> through tutorial and seminar discussion and class presentations;</p> <p># <b>attention to detail</b> through essay preparation and writing, and examination revision;</p> <p># <b>time management and planning</b> through managing and organising workloads for recommended reading, essay and assignment completion and examination revision;</p> <p># <b>teamwork</b> through joint projects and group discussions.</p>
<b>Links to further information:</b>	None
<b>Notes:</b>	None